HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use PROMACTA safely and effectively. See full prescribing information for PROMACTA.

PROMACTA (eltrombopag) tablets, for oral use Initial U.S. Approval: 2008

WARNING: RISK FOR HEPATIC DECOMPENSATION IN PATIENTS WITH CHRONIC HEPATITIS C

See full prescribing information for complete boxed warning

In patients with chronic hepatitis C, PROMACTA in combination with interferon and ribavirin may increase the risk of hepatic decompensation. (5.1)

-----RECENT MAJOR CHANGES ------

| Indications and Usage, Treatment of Severe Aplastic Anemia (1.3) | 08/2014 |
|--|---------|
| Indications and Usage, Limitations of Use (1.4) | 04/2014 |
| Dosage and Administration, Severe Aplastic Anemia (2.3) | 08/2014 |

-----INDICATIONS AND USAGE ------

PROMACTA is a thrombopoietin receptor agonist indicated for the treatment of:

- thrombocytopenia in patients with chronic immune (idiopathic) thrombocytopenia (ITP) who have had an insufficient response to corticosteroids, immunoglobulins, or splenectomy. (1.1)
- thrombocytopenia in patients with chronic hepatitis C to allow the initiation and maintenance of interferon-based therapy. (1.2)
- patients with severe aplastic anemia who have had an insufficient response to immunosuppressive therapy. (1.3)

Limitations of Use:

- PROMACTA should be used only in patients with ITP whose degree of thrombocytopenia and clinical condition increase the risk for bleeding. (1.4)
- PROMACTA should be used only in patients with chronic hepatitis C whose degree of thrombocytopenia prevents the initiation of interferonbased therapy or limits the ability to maintain interferon-based therapy. (1.4)
- Safety and efficacy have not been established in combination with directacting antiviral agents used without interferon for treatment of chronic hepatitis C infection. (1.4)

----- DOSAGE AND ADMINISTRATION ------

- Take on an empty stomach (1 hour before or 2 hours after a meal). (2.4)
- Allow a 4-hour interval between PROMACTA and other medications, foods, or supplements containing polyvalent cations (e.g., iron, calcium, aluminum, magnesium, selenium, and zinc). (2.4)

- Chronic ITP: Initiate PROMACTA at 50 mg once daily for most patients. Reduce initial dose in patients with hepatic impairment and/or patients of East Asian ancestry. Adjust to maintain platelet count greater than or equal to 50 x 10⁹/L. Do not exceed 75 mg per day. (2.1)
- Chronic Hepatitis C-associated Thrombocytopenia: Initiate PROMACTA at 25 mg once daily for all patients. Adjust to achieve target platelet count required to initiate antiviral therapy. Do not exceed a daily dose of 100 mg. (2.2)
- Severe Aplastic Anemia: Initiate PROMACTA at 50 mg once daily for most patients. Reduce initial dose in patients with hepatic impairment or patients of East Asian ancestry. Adjust to maintain platelet count greater than 50 x 10⁹/L. Do not exceed 150 mg per day. (2.3)

| CONTRAINDICATIONS | |
|-------------------|--|
| None. (4) | |

------ WARNINGS and PRECAUTIONS ------

- Hepatic Decompensation in Patients with Chronic Hepatitis C. (5.1)
- Hepatotoxicity: Monitor liver function before and during therapy. (5.2)
- Thrombotic/Thromboembolic Complications: Portal vein thrombosis has been reported in patients with chronic liver disease receiving PROMACTA. Monitor platelet counts regularly. (5.3)

----- ADVERSE REACTIONS ----

- The most common adverse reactions in ITP patients (greater than or equal to 3% and greater than placebo) were: nausea, diarrhea, upper respiratory tract infection, vomiting, increased ALT, myalgia, urinary tract infection, oropharyngeal pain, increased AST, pharyngitis, back pain, influenza, paresthesia, and rash. (6.1)
- The most common adverse reactions in thrombocytopenic patients with chronic hepatitis C (greater than or equal to 10% and greater than placebo) were: anemia, pyrexia, fatigue, headache, nausea, diarrhea, decreased appetite, influenza-like illness, asthenia, insomnia, cough, pruritus, chills, myalgia, alopecia, and peripheral edema. (6.1)
- The most common adverse reactions in patients with severe aplastic anemia (greater than or equal to 20%) were: nausea, fatigue, cough, diarrhea, and headache. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact GlaxoSmithKline at 1-888-825-5249 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

-----DRUG INTERACTIONS------

PROMACTA must not be taken within 4 hours of any medications or products containing polyvalent cations such as antacids, dairy products, and mineral supplements. (7.1)

----- USE IN SPECIFIC POPULATIONS ------

- Pregnancy: Based on animal data, PROMACTA may cause fetal harm. (8.1)
- Nursing Mothers: A decision should be made to discontinue PROMACTA or nursing, taking into account the importance of PROMACTA to the mother. (8.3)
- Reduce the initial dose in chronic ITP patients with hepatic impairment. (8.6)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 04/2015

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FULL PRESCRIBING INFORMATION

| 1 | WARNING: RISK FOR HEPATIC DECOMPENSATION IN PATIENTS WITH |
|----|--|
| 2 | CHRONIC HEPATITIS C |
| 3 | In patients with chronic hepatitis C, PROMACTA [®] in combination with interferon and |
| 4 | ribavirin may increase the risk of hepatic decompensation [see Warnings and Precautions |
| 5 | (5.1)]. |
| 6 | 1 INDICATIONS AND USAGE |
| 7 | 1.1 Treatment of Thrombocytopenia in Patients with Chronic ITP |
| 8 | PROMACTA is indicated for the treatment of thrombocytopenia in patients with chronic |
| 9 | immune (idiopathic) thrombocytopenia (ITP) who have had an insufficient response to |
| 10 | corticosteroids, immunoglobulins, or splenectomy. |
| 11 | 1.2 Treatment of Thrombocytopenia in Patients with Hepatitis C Infection |
| 12 | PROMACTA is indicated for the treatment of thrombocytopenia in patients with chronic |
| 13 | hepatitis C to allow the initiation and maintenance of interferon-based therapy. |
| 14 | 1.3 Treatment of Severe Aplastic Anemia |
| 15 | PROMACTA is indicated for the treatment of patients with severe aplastic anemia who |
| 16 | have had an insufficient response to immunosuppressive therapy. |
| 17 | 1.4 Limitations of Use |
| 18 | • PROMACTA should be used only in patients with ITP whose degree of thrombocytopenia |
| 19 | and clinical condition increase the risk for bleeding. |
| 20 | • PROMACTA should be used only in patients with chronic hepatitis C whose degree of |
| 21 | thrombocytopenia prevents the initiation of interferon-based therapy or limits the ability to |
| 22 | maintain interferon-based therapy. |
| 23 | • Safety and efficacy have not been established in combination with direct-acting antiviral |
| 24 | agents used without interferon for treatment of chronic hepatitis C infection. |
| 25 | 2 DOSAGE AND ADMINISTRATION |
| 26 | 2.1 Chronic Immune (Idiopathic) Thrombocytopenia |
| 27 | Use the lowest dose of PROMACTA to achieve and maintain a platelet count greater than |
| 28 | or equal to 50 x 10^9 /L as necessary to reduce the risk for bleeding. Dose adjustments are based |
| 29 | upon the platelet count response. Do not use PROMACTA to normalize platelet counts [see |
| 30 | Warnings and Precautions (5.3)]. In clinical trials, platelet counts generally increased within 1 to |
| 31 | 2 weeks after starting PROMACTA and decreased within 1 to 2 weeks after discontinuing |
| 32 | PROMACTA [see Clinical Studies (14.1)]. |
| 33 | Initial Dose Regimen: Initiate PROMACTA at a dose of 50 mg once daily, except in |
| 34 | patients who are of East Asian ancestry (such as Chinese, Japanese, Taiwanese, or Korean) or |

35 who have mild to severe hepatic impairment (Child-Pugh Class A, B, C).

| 36 | For ITP patients of East Asian ancestry, initiate PROMACTA at a reduced dose of 25 mg |
|----|--|
| 37 | once daily [see Use in Specific Populations (8.8), Clinical Pharmacology (12.3)]. |
| 38 | For ITP patients with mild, moderate, or severe hepatic impairment (Child-Pugh Class A, |
| 39 | B, C), initiate PROMACTA at a reduced dose of 25 mg once daily [see Use in Specific |
| 40 | Populations (8.6), Clinical Pharmacology (12.3)]. |
| 41 | For ITP patients of East Asian ancestry with hepatic impairment (Child-Pugh Class A, B, |
| 42 | C), consider initiating PROMACTA at a reduced dose of 12.5 mg once daily [see Clinical |
| 43 | Pharmacology (12.3)]. |
| 44 | Monitoring and Dose Adjustment: After initiating PROMACTA, adjust the dose to |
| 45 | achieve and maintain a platelet count greater than or equal to 50 x 10^9 /L as necessary to reduce |
| 46 | the risk for bleeding. Do not exceed a dose of 75 mg daily. Monitor clinical hematology and liver |
| 47 | tests regularly throughout therapy with PROMACTA and modify the dosage regimen of |
| 48 | PROMACTA based on platelet counts as outlined in Table 1. During therapy with PROMACTA, |

- 49 assess CBCs with differentials, including platelet counts, weekly until a stable platelet count has
- 50 been achieved. Obtain CBCs with differentials, including platelet counts, monthly thereafter.
- 51

Table 1. Dose Adjustments of PROMACTA in Adults with Chronic Immune (Idiopathic) Thrombocytopenia

| тпопросуторениа | |
|--|--|
| Platelet Count Result | Dose Adjustment or Response |
| $<50 \text{ x } 10^9/\text{L}$ following at least | Increase daily dose by 25 mg to a maximum of 75 mg/day. |
| 2 weeks of PROMACTA | For patients taking 12.5 mg once daily, increase the dose to |
| | 25 mg daily before increasing the dose amount by 25 mg. |
| $\geq 200 \text{ x } 10^9/\text{L to} \leq 400 \text{ x } 10^9/\text{L}$ | Decrease the daily dose by 25 mg. Wait 2 weeks to assess |
| at any time | the effects of this and any subsequent dose adjustments. |
| >400 x 10 ⁹ /L | Stop PROMACTA; increase the frequency of platelet |
| | monitoring to twice weekly. |
| | Once the platelet count is $<150 \times 10^9$ /L, reinitiate therapy |
| | at a daily dose reduced by 25 mg. |
| | For patients taking 25 mg once daily, reinitiate therapy at a |
| | daily dose of 12.5 mg. |
| $>400 \times 10^9$ /L after 2 weeks of | Discontinue PROMACTA. |
| therapy at lowest dose of | |
| PROMACTA | |

- 55 In ITP patients with hepatic impairment (Child-Pugh Class A, B, C), after initiating
- 56 PROMACTA or after any subsequent dosing increase, wait 3 weeks before increasing the dose.
- 57 Modify the dosage regimen of concomitant ITP medications, as medically appropriate, to
- 58 avoid excessive increases in platelet counts during therapy with PROMACTA. Do not administer
- 59 more than one dose of PROMACTA within any 24-hour period.

60 Discontinuation: Discontinue PROMACTA if the platelet count does not increase to a level sufficient to avoid clinically important bleeding after 4 weeks of therapy with 61 62 PROMACTA at the maximum daily dose of 75 mg. Excessive platelet count responses, as 63 outlined in Table 1, or important liver test abnormalities also necessitate discontinuation of 64 PROMACTA [see Warnings and Precautions (5.2)]. Obtain CBCs with differentials, including 65 platelet counts, weekly for at least 4 weeks following discontinuation of PROMACTA. 66 2.2 **Chronic Hepatitis C-associated Thrombocytopenia** 67 Use the lowest dose of PROMACTA to achieve and maintain a platelet count necessary to initiate and maintain antiviral therapy with pegylated interferon and ribavirin. Dose 68 69 adjustments are based upon the platelet count response. Do not use PROMACTA to normalize 70 platelet counts [see Warnings and Precautions (5.3)]. In clinical trials, platelet counts generally 71 began to rise within the first week of treatment with PROMACTA [see Clinical Studies (14.2)]. 72 Initial Dose Regimen: Initiate PROMACTA at a dose of 25 mg once daily. 73 Monitoring and Dose Adjustment: Adjust the dose of PROMACTA in 25-mg 74 increments every 2 weeks as necessary to achieve the target platelet count required to initiate 75 antiviral therapy. Monitor platelet counts every week prior to starting antiviral therapy. 76 During antiviral therapy, adjust the dose of PROMACTA to avoid dose reductions of 77 peginterferon. Monitor CBCs with differentials, including platelet counts, weekly during 78 antiviral therapy until a stable platelet count is achieved. Monitor platelet counts monthly 79 thereafter. Do not exceed a dose of 100 mg daily. Monitor clinical hematology and liver tests 80 regularly throughout therapy with PROMACTA. For specific dosage instructions for peginterferon or ribavirin, refer to their 81 82 respective prescribing information. 83

Table 2. Dose Adjustments of PROMACTA in Adults with Thrombocytopenia due to Chronic Hepatitis C

| Platelet Count Result | Dose Adjustment or Response |
|--|---|
| $<50 \text{ x } 10^9/\text{L}$ following at least | Increase daily dose by 25 mg to a maximum of 100 mg/day. |
| 2 weeks of PROMACTA | |
| \geq 200 x 10 ⁹ /L to \leq 400 x 10 ⁹ /L | Decrease the daily dose by 25 mg. |
| at any time | Wait 2 weeks to assess the effects of this and any subsequent |
| | dose adjustments. |
| >400 x 10 ⁹ /L | Stop PROMACTA; increase the frequency of platelet |
| | monitoring to twice weekly. |
| | Once the platelet count is $<150 \times 10^9$ /L, reinitiate therapy at a |
| | daily dose reduced by 25 mg. |
| | For patients taking 25 mg once daily, reinitiate therapy at a |
| | daily dose of 12.5 mg. |
| $>400 \times 10^9$ /L after 2 weeks of | Discontinue PROMACTA. |
| therapy at lowest dose of | |
| PROMACTA | |

86

99

<u>Discontinuation</u>: The prescribing information for pegylated interferon and ribavirin
 include recommendations for antiviral treatment discontinuation for treatment futility. Refer to
 pegylated interferon and ribavirin prescribing information for discontinuation recommendations
 for antiviral treatment futility.

91 PROMACTA should be discontinued when antiviral therapy is discontinued. Excessive
92 platelet count responses, as outlined in Table 2, or important liver test abnormalities also
93 necessitate discontinuation of PROMACTA [see Warnings and Precautions (5.2)].

94 2.3 Severe Aplastic Anemia

Use the lowest dose of PROMACTA to achieve and maintain a hematologic response.
Dose adjustments are based upon the platelet count. Hematologic response requires dose
titration, generally up to 150 mg, and may take up to 16 weeks after starting PROMACTA [see *Clinical Studies (14.3)*].

Initial Dose Regimen: Initiate PROMACTA at a dose of 50 mg once daily.

For severe aplastic anemia in patients of East Asian ancestry or those with mild,
moderate, or severe hepatic impairment (Child-Pugh Class A, B, C), initiate PROMACTA at a
reduced dose of 25 mg once daily [see Use in Specific Populations (8.8)(8.6), Clinical
Pharmacology (12.3)].

104Monitoring and Dose Adjustment: Adjust the dose of PROMACTA in 50-mg105increments every 2 weeks as necessary to achieve the target platelet count greater than or equal106to $50 \ge 10^9$ /L as necessary. Do not exceed a dose of 150 mg daily. Monitor clinical hematology107and liver tests regularly throughout therapy with PROMACTA and modify the dosage regimen108of PROMACTA based on platelet counts as outlined in Table 3.

109

| Table 3. Dose Adjustments of PROMACTA in Patients with Severe Aplastic Anemia Platelet Count Result Dose Adjustment or Response | | |
|---|---|--|
| $<50 \times 10^9$ /L following at least | Increase daily dose by 50 mg to a maximum of 150 mg/day. | |
| 2 weeks of PROMACTA | For patients taking 25 mg once daily, increase the dose to | |
| | 50 mg daily before increasing the dose amount by 50 mg. | |
| $\geq 200 \text{ x } 10^9/\text{L} \text{ to} \leq 400 \text{ x } 10^9/\text{L}$ | Decrease the daily dose by 50 mg. Wait 2 weeks to assess the | |
| at any time | effects of this and any subsequent dose adjustments. | |
| >400 x 10 ⁹ /L | Stop PROMACTA for 1 week. | |
| | Once the platelet count is $<150 \times 10^9$ /L, reinitiate therapy at a | |
| | dose reduced by 50 mg. | |
| $>400 \text{ x } 10^9/\text{L}$ after 2 weeks of | Discontinue PROMACTA. | |
| therapy at lowest dose of | | |
| PROMACTA | | |

110 | Table 3. Dose Adjustments of PROMACTA in Patients with Severe Aplastic Anemia

111

For patients who achieve tri-lineage response, including transfusion independence, lasting at least 8 weeks: the dose of PROMACTA may be reduced by 50% [see Clinical Studies (14.3)]. If counts remain stable after 8 weeks at the reduced dose, then discontinue PROMACTA and monitor blood counts. If platelet counts drop to less than 30 x 10⁹/L, hemoglobin to less than 9 g/dL, or ANC to less than 0.5 x 10⁹/L, PROMACTA may be reinitiated at the previous effective dose.

118Discontinuation:If no hematologic response has occurred after 16 weeks of therapy with119PROMACTA, discontinue therapy. If new cytogenetic abnormalities are observed, consider120discontinuation of PROMACTA [see Adverse Reactions (6.1)]. Excessive platelet count121responses (as outlined in Table 3) or important liver test abnormalities also necessitate122discontinuation of PROMACTA [see Warnings and Precautions (5.2)].

- 123 **2.4 Administration**
- Take PROMACTA on an empty stomach (1 hour before or 2 hours after a meal) [see *Clinical Pharmacology* (12.3)].

Allow at least a 4-hour interval between PROMACTA and other medications (e.g., antacids), calcium-rich foods (e.g., dairy products and calcium fortified juices), or supplements containing polyvalent cations such as iron, calcium, aluminum, magnesium, selenium, and zinc *[see Drug Interactions (7.1)]*.

- 130 3 DOSAGE FORMS AND STRENGTHS
- 131 12.5-mg tablets round, biconvex, white, film-coated tablets debossed with GS MZ1 and
- 132 12.5 on one side. Each tablet, for oral administration, contains eltrombopag olamine,
- 133 equivalent to 12.5 mg of eltrombopag free acid.

- 25-mg tablets round, biconvex, orange, film-coated tablets debossed with GS NX3 and
 25 on one side. Each tablet, for oral administration, contains eltrombopag olamine,
 equivalent to 25 mg of eltrombopag free acid.
- 50-mg tablets round, biconvex, blue, film-coated tablets debossed with GS UFU and
- 138 50 on one side. Each tablet, for oral administration, contains eltrombopag olamine,139 equivalent to 50 mg of eltrombopag free acid.
- 75-mg tablets round, biconvex, pink, film-coated tablets debossed with GS FFS and 75 on one side. Each tablet, for oral administration, contains eltrombopag olamine, equivalent to
 75 mg of eltrombopag free acid.
- 100-mg tablets round, biconvex, green, film-coated tablets debossed with GS 1L5. Each tablet, for oral administration, contains eltrombopag olamine, equivalent to 100 mg of eltrombopag free acid.
- 1464CONTRAINDICATIONS
- 147 None.

1485WARNINGS AND PRECAUTIONS

149 **5.1** Hepatic Decompensation in Patients with Chronic Hepatitis C

In patients with chronic hepatitis C, PROMACTA in combination with interferon and ribavirin may increase the risk of hepatic decompensation. In two controlled clinical trials in patients with chronic hepatitis C and thrombocytopenia, ascites and encephalopathy occurred more frequently on the arm receiving treatment with PROMACTA plus antivirals (7%) than the

154 placebo plus antivirals arm (4%). Patients with low albumin levels (less than 3.5 g/dL) or Model

- 155 for End-Stage Liver Disease (MELD) score greater than or equal to 10 at baseline had a greater
- risk for hepatic decompensation on the arm receiving treatment with PROMACTA plus
- antivirals. Discontinue PROMACTA if antiviral therapy is discontinued.

158 **5.2 Hepatotoxicity**

159 PROMACTA can cause liver enzyme elevations [see Adverse Reactions (6.1)]. Measure 160 serum ALT, AST, and bilirubin prior to initiation of PROMACTA, every 2 weeks during the 161 dose adjustment phase, and monthly following establishment of a stable dose. PROMACTA 162 inhibits UGT1A1 and OATP1B1, which may lead to indirect hyperbilirubinemia. If bilirubin is 163 elevated, perform fractionation. Evaluate abnormal serum liver tests with repeat testing within 3 164 to 5 days. If the abnormalities are confirmed, monitor serum liver tests weekly until resolved or 165 stabilized. Discontinue PROMACTA if ALT levels increase to greater than or equal to 3X ULN 166 in patients with normal liver function or greater than or equal to 3X baseline in patients with pre-167 treatment elevations in transaminases and are:

- 168 progressively increasing, or
- persistent for greater than or equal to 4 weeks, or
- 170 accompanied by increased direct bilirubin, or
- accompanied by clinical symptoms of liver injury or evidence for hepatic decompensation.

172 If the potential benefit for reinitiating treatment with PROMACTA is considered to

173 outweigh the risk for hepatotoxicity, then consider cautiously reintroducing PROMACTA and

174 measure serum liver tests weekly during the dose adjustment phase. Hepatotoxicity may reoccur

175 if PROMACTA is reinitiated. If liver tests abnormalities persist, worsen or recur, then

176 permanently discontinue PROMACTA.

177 **5.3 Thrombotic/Thromboembolic Complications**

In 2 controlled clinical trials in patients with chronic hepatitis C and thrombocytopenia,
3% (31/955) treated with PROMACTA experienced a thrombotic event compared with 1%
(5/484) on placebo. The majority of events were of the portal venous system (1% in patients
treated with PROMACTA versus less than 1% for placebo).

182 Thrombotic/thromboembolic complications may result from increases in platelet counts
183 with PROMACTA. Reported thrombotic/thromboembolic complications included both venous
184 and arterial events and were observed at low and at normal platelet counts.

Consider the potential for an increased risk of thromboembolism when administering
 PROMACTA to patients with known risk factors for thromboembolism (e.g., Factor V Leiden,

187 ATIII deficiency, antiphospholipid syndrome, chronic liver disease). To minimize the risk for

188 thrombotic/thromboembolic complications, do not use PROMACTA in an attempt to normalize

- 189 platelet counts. Follow the dose adjustment guidelines to achieve and maintain target platelet
- 190 counts [see Dosage and Administration (2.1, 2.2, 2.3)].
- In a controlled trial in non-ITP thrombocytopenic patients with chronic liver disease
 undergoing elective invasive procedures (N = 292), the risk of thrombotic events was increased
 in patients treated with 75 mg of PROMACTA once daily. Seven thrombotic complications (six
 patients) were reported in the group that received PROMACTA and three thrombotic
 complications were reported in the placebo group (two patients). All of the thrombotic
 complications reported in the group that received PROMACTA were portal vein thrombosis
 (PVT). Symptoms of PVT included abdominal pain, nausea, vomiting, and diarrhea. Five of the
- 198 six patients in the group that received PROMACTA experienced a thrombotic complication
- 199 within 30 days of completing treatment with PROMACTA and at a platelet count above 200 x
- 10^{9} /L. The risk of portal venous thrombosis was increased in thrombocytopenic patients with
- 201 chronic liver disease treated with 75 mg of PROMACTA once daily for 2 weeks in preparation
- 202 for invasive procedures.

203 **5.4 Cataracts**

In the 3 controlled clinical trials in chronic ITP, cataracts developed or worsened in 15 (7%) patients who received 50 mg of PROMACTA daily and 8 (7%) placebo-group patients. In the extension trial, cataracts developed or worsened in 4% of patients who underwent ocular examination prior to therapy with PROMACTA. In the 2 controlled clinical trials in patients with chronic hepatitis C and thrombocytopenia, cataracts developed or worsened in 8% patients treated with PROMACTA and 5% patients treated with placebo.

Cataracts were observed in toxicology studies of eltrombopag in rodents [see Nonclinical
 Toxicology (13.2)]. Perform a baseline ocular examination prior to administration of

- 212 PROMACTA and, during therapy with PROMACTA, regularly monitor patients for signs and
- 213 symptoms of cataracts.

214 6 **ADVERSE REACTIONS**

- The following serious adverse reactions associated with PROMACTA are described in other sections.
- Hepatic Decompensation in Patients with Chronic Hepatitis C [see Warnings and
 Precautions (5.1)]
- Hepatotoxicity [see Warnings and Precautions (5.2)]
- Thrombotic/Thromboembolic Complications [see Warnings and Precautions (5.3)]
- Cataracts [see Warnings and Precautions (5.4)]

222 6.1 Clinical Trials Experience

- 223 Because clinical trials are conducted under widely varying conditions, adverse reaction
- rates observed in the clinical trials of a drug cannot be directly compared with rates in the clinical trials of another drug and may not reflect the rates observed in practice.
- 226 Chronic Immune (Idiopathic) Thrombocytopenia: In clinical trials, hemorrhage was
- the most common serious adverse reaction and most hemorrhagic reactions followed
- 228 discontinuation of PROMACTA. Other serious adverse reactions included
- thrombotic/thromboembolic complications [see Warnings and Precautions (5.3)].
- 230 The data described below reflect exposure of PROMACTA to 446 patients with chronic
- ITP aged 18 to 85, of whom 65% were female across the ITP clinical development program
- 232 including 3 placebo-controlled trials. PROMACTA was administered to 277 patients for at least
- 233 6 months and 202 patients for at least 1 year.
- Table 4 presents the most common adverse drug reactions (experienced by greater than or equal to 3% of patients receiving PROMACTA) from the 3 placebo-controlled trials, with a
- 236 higher incidence in PROMACTA versus placebo.

| | PROMACTA 50 mg | Placebo |
|-----------------------------------|----------------|----------------|
| | n = 241 | n = 128 |
| Adverse Reaction | (%) | (%) |
| Nausea | 9 | 3 |
| Diarrhea | 9 | 7 |
| Upper respiratory tract infection | 7 | 6 |
| Vomiting | 6 | <1 |
| Increased ALT | 5 | 3 |
| Myalgia | 5 | 2 |
| Urinary tract infection | 5 | 3 |
| Oropharyngeal pain | 4 | 3 |
| Increased AST | 4 | 2 |
| Pharyngitis | 4 | 2 |
| Back pain | 3 | 2 |
| Influenza | 3 | 2 |
| Paresthesia | 3 | 2 |
| Rash | 3 | 2 |

238 Table 4. Adverse Reactions (≥3%) from Three Placebo-controlled Trials in Adults with

239 Chronic Immune (Idiopathic) Thrombocytopenia

240

In the 3 controlled clinical chronic ITP trials, alopecia, musculoskeletal pain, blood alkaline phosphatase increased, and dry mouth were the adverse reactions reported in 2% of patients treated with PROMACTA and in no patients who received placebo.

Among 299 patients with chronic ITP who received PROMACTA in the single-arm extension trial, the adverse reactions occurred in a pattern similar to that seen in the placebocontrolled trials. Table 5 presents the most common treatment-related adverse reactions (experienced by greater than or equal to 3% of patients receiving PROMACTA) from the extension trial.

| 250 | Table 5. Treatment-related Adverse Reactions (≥3%) from Extension Trial in Adults with |
|-----|--|
| 051 | |

| | PROMACTA 50 mg n = 299 |
|--------------------|---------------------------|
| Adverse Reaction | (%) |
| Headache | 10 |
| Hyperbilirubinemia | 6 |
| ALT increased | 6 |
| Cataract | 5 |
| AST increased | 4 |
| Fatigue | 4 |
| Nausea | 4 |

Chronic Immune (Idiopathic) Thrombocytopenia 251

252

253 In the 3 controlled chronic ITP trials, serum liver test abnormalities (predominantly 254 Grade 2 or less in severity) were reported in 11% and 7% of patients for PROMACTA and 255 placebo, respectively. Four patients (1%) treated with PROMACTA and three patients in the 256 placebo group (2%) discontinued treatment due to hepatobiliary laboratory abnormalities. Seven 257 of the patients treated with PROMACTA in the controlled trials with hepatobiliary laboratory 258 abnormalities were re-exposed to PROMACTA in the extension trial. Six of these patients again 259 experienced liver test abnormalities (predominantly Grade 1) resulting in discontinuation of 260 PROMACTA in one patient. In the extension chronic ITP trial, one additional patient had 261 PROMACTA discontinued due to liver test abnormalities (less than or equal to Grade 3). 262 In a placebo-controlled trial of PROMACTA in non-ITP thrombocytopenic patients with 263 chronic liver disease, six patients treated with PROMACTA and one patient in the placebo group 264 developed portal vein thromboses [see Warnings and Precautions (5.3)]. 265 Chronic Hepatitis C-associated Thrombocytopenia: In the 2 placebo-controlled trials, 955 patients with chronic hepatitis C-associated thrombocytopenia received PROMACTA. 266 267 Table 6 presents the most common adverse drug reactions (experienced by greater than or equal 268 to 10% of patients receiving PROMACTA compared with placebo). 269

| | PROMACTA Placebo | | |
|-------------------------|---------------------------|---------------------------|--|
| | + Peginterferon/Ribavirin | + Peginterferon/Ribavirin | |
| | n = 955 | n = 484 | |
| Adverse Reaction | (%) | (%) | |
| Anemia | 40 | 35 | |
| Pyrexia | 30 | 24 | |
| Fatigue | 28 | 23 | |
| Headache | 21 | 20 | |
| Nausea | 19 | 14 | |
| Diarrhea | 19 | 11 | |
| Decreased appetite | 18 | 14 | |
| Influenza-like illness | 18 | 16 | |
| Asthenia | 16 | 13 | |
| Insomnia | 16 | 15 | |
| Cough | 15 | 12 | |
| Pruritus | 15 | 13 | |
| Chills | 14 | 9 | |
| Myalgia | 12 | 10 | |
| Alopecia | 10 | 6 | |
| Peripheral edema | 10 | 5 | |

271 controlled Trials in Adults with Chronic Hepatitis C

272

In the 2 controlled clinical trials in patients with chronic hepatitis C, hyperbilirubinemia was reported in 8% of patients receiving PROMACTA compared with 3% for placebo. Total bilirubin greater than or equal to 1.5 X ULN was reported in 76% and 50% of patients receiving PROMACTA and placebo, respectively. ALT or AST greater than or equal to 3X ULN was reported in 34% and 38% of patients for PROMACTA and placebo, respectively.

278 <u>Severe Aplastic Anemia:</u> In the single-arm, open-label trial, 43 patients with severe 279 aplastic anemia received PROMACTA. Eleven patients (26%) were treated for greater than 280 6 months and 7 patients (16%) were treated for greater than 1 year. The most common adverse 281 reactions (greater than or equal to 20%) were nausea, fatigue, cough, diarrhea, and headache.

| | PROMACTA |
|-------------------------|----------|
| | (n = 43) |
| Adverse Reaction | (%) |
| Nausea | 33 |
| Fatigue | 28 |
| Cough | 23 |
| Diarrhea | 21 |
| Headache | 21 |
| Pain in extremity | 19 |
| Dyspnea | 14 |
| Pyrexia | 14 |
| Dizziness | 14 |
| Oropharyngeal pain | 14 |
| Febrile neutropenia | 14 |
| Abdominal pain | 12 |
| Ecchymosis | 12 |
| Muscle spasms | 12 |
| Transaminases increased | 12 |
| Arthralgia | 12 |
| Rhinorrhea | 12 |

Table 7. Adverse Reactions (≥10%) from One Open-label Trial in Adults with Severe Aplastic Anemia

285

In this trial, patients had bone marrow aspirates evaluated for cytogenetic abnormalities.
Eight patients had a new cytogenetic abnormality reported on therapy, including 5 patients who
had complex changes in chromosome 7.

289 6.2 Postmarketing Experience

The following adverse reactions have been identified during post approval use of PROMACTA. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate the frequency or establish a causal relationship to drug exposure.

294

Vascular Disorders: Thrombotic microangiopathy with acute renal failure.

295 7 DRUG INTERACTIONS

In vitro, CYP1A2, CYP2C8, UDP-glucuronosyltransferase (UGT)1A1 and UGT1A3 are
 involved in the metabolism of eltrombopag. *In vitro*, eltrombopag inhibits the following
 metabolic or transporter systems: CYP2C8, CYP2C9, UGT1A1, UGT1A3, UGT1A4, UGT1A6,

299 UGT1A9, UGT2B7, UGT2B15, OATP1B1 and breast cancer resistance protein (BCRP) [see

300 Clinical Pharmacology (12.3)].

301 7.1 Polyvalent Cations (Chelation)

Eltrombopag chelates polyvalent cations (such as iron, calcium, aluminum, magnesium,
 selenium, and zinc) in foods, mineral supplements, and antacids. In a clinical trial, administration
 of PROMACTA with a polyvalent cation-containing antacid decreased plasma eltrombopag
 systemic exposure by approximately 70% [see Clinical Pharmacology (12.3)].

306 PROMACTA must not be taken within 4 hours of any medications or products
 307 containing polyvalent cations such as antacids, dairy products, and mineral supplements to avoid
 308 significant reduction in absorption of PROMACTA due to chelation [see Dosage and
 309 Administration (2.4)].

- 310 7.2 Transporters
- 311 Coadministration of PROMACTA with the OATP1B1 and BCRP substrate, rosuvastatin, 312 to healthy adult subjects increased plasma rosuvastatin AUC_{0- ∞} by 55% and C_{max} by 103% [see 313 *Clinical Pharmacology* (12.3)].
- 314 Use caution when concomitantly administering PROMACTA and drugs that are 315 substrates of OATP1B1 (e.g., atorvastatin, bosentan, ezetimibe, fluvastatin, glyburide,

316 olmesartan, pitavastatin, pravastatin, rosuvastatin, repaglinide, rifampin, simvastatin acid, SN-38

317 [active metabolite of irinotecan], valsartan) or BCRP (e.g., imatinib, irinotecan, lapatinib,

318 methotrexate, mitoxantrone, rosuvastatin, sulfasalazine, topotecan). Monitor patients closely for

- 319 signs and symptoms of excessive exposure to the drugs that are substrates of OATP1B1 or
- 320 BCRP and consider reduction of the dose of these drugs, if appropriate. In clinical trials with
- 321 PROMACTA, a dose reduction of rosuvastatin by 50% was recommended.
- 322 **7.3 Protease Inhibitors**
- <u>HIV Protease Inhibitors:</u> In a drug interaction trial, coadministration of PROMACTA
 with lopinavir/ritonavir (LPV/RTV) decreased plasma eltrombopag exposure by 17% [see
 Clinical Pharmacology (12.3)]. No dose adjustment is recommended when PROMACTA is
 coadministered with LPV/RTV. Drug interactions with other HIV protease inhibitors have not
 been evaluated.
- 328 <u>Hepatitis C Virus (HCV) Protease Inhibitors:</u> Coadministration of PROMACTA with 329 either boceprevir or telaprevir did not affect eltrombopag or protease inhibitor exposure 330 significantly *[see Clinical Pharmacology (12.3)]*. No dose adjustments are recommended. Drug 331 interactions with other HCV protease inhibitors have not been evaluated.
- 332 7.4 Peginterferon Alfa 2a/b Therapy

Coadministration of peginterferon alfa 2a (PEGASYS[®]) or 2b (PEGINTRON[®]) did not affect eltrombopag exposure in 2 randomized, double-blind, placebo-controlled trials with adult patients with chronic hepatitis C [see Clinical Pharmacology (12.3)].

- 336 8 USE IN SPECIFIC POPULATIONS
- 337 8.1 Pregnancy
- 338 Pregnancy Category C

- 339
- 340
- 341

and reduced fetal weights at maternally toxic doses. PROMACTA should be used in pregnancy 342 only if the potential benefit to the mother justifies the potential risk to the fetus.

343 In an early embryonic development study, female rats received oral eltrombopag at doses 344 of 10, 20, or 60 mg/kg/day (0.8, 2, and 6 times, respectively, the human clinical exposure based 345 on AUC in ITP patients at 75 mg/day and 0.3, 1, and 3 times, respectively, the human clinical 346 exposure based on AUC in chronic hepatitis C patients at 100 mg/day). Increased pre- and post-347 implantation loss and reduced fetal weight were observed at the highest dose which also caused 348 maternal toxicity.

There are no adequate and well-controlled studies of eltrombopag use in pregnancy. In

animal reproduction and developmental toxicity studies, there was evidence of embryolethality

349 Eltrombopag was administered orally to pregnant rats at 10, 20, or 60 mg/kg/day (0.8, 2, 100)350 and 6 times, respectively, the human clinical exposure based on AUC in ITP patients at 351 75 mg/day and 0.3, 1, and 3 times, respectively, the human clinical exposure based on AUC in 352 chronic hepatitis C patients at 100 mg/day). Decreased fetal weights (6% to 7%) and a slight 353 increase in the presence of cervical ribs were observed at the highest dose which also caused 354

maternal toxicity. However, no evidence of major structural malformations was observed. 355 Pregnant rabbits were treated with oral eltrombopag doses of 30, 80, or 150 mg/kg/day 356 (0.04, 0.3, and 0.5 times, respectively, the human clinical exposure based on AUC in ITP 357 patients at 75 mg/day and 0.02, 0.1, and 0.3 times, respectively, the human clinical exposure 358 based on AUC in chronic hepatitis C patients at 100 mg/day). No evidence of fetotoxicity, 359 embryolethality, or teratogenicity was observed.

360 In a pre- and post-natal developmental toxicity study in pregnant rats (F0), no adverse 361 effects on maternal reproductive function or on the development of the offspring (F1) were 362 observed at doses up to 20 mg/kg/day (2 times the human clinical exposure based on AUC in 363 ITP patients at 75 mg/day and similar to the human clinical exposure based on AUC in chronic 364 hepatitis C patients at 100 mg/day). Eltrombopag was detected in the plasma of offspring (F1). 365 The plasma concentrations in pups increased with dose following administration of drug to the 366 F0 dams.

367 8.3 **Nursing Mothers**

368 It is not known whether eltrombopag is excreted in human milk. Because many drugs are 369 excreted in human milk and because of the potential for serious adverse reactions in nursing 370 infants from PROMACTA, a decision should be made whether to discontinue nursing or to 371 discontinue PROMACTA taking into account the importance of PROMACTA to the mother.

- 372 8.4 Pediatric Use
 - The safety and efficacy of PROMACTA in pediatric patients have not been established.
- 374 8.5 **Geriatric Use**

375 Of the 106 patients in 2 randomized clinical trials of PROMACTA 50 mg in chronic ITP,

- 376 22% were 65 years of age and over, while 9% were 75 years of age and over. In the 2
- 377 randomized clinical trials of PROMACTA in patients with chronic hepatitis C and
- 378 thrombocytopenia, 7% were 65 years of age and over, while fewer than 1% were 75 years of age

- and over. No overall differences in safety or effectiveness were observed between these patients
- 380 and younger patients in the placebo-controlled trials, but greater sensitivity of some older
- 381 individuals cannot be ruled out.

382 8.6 Hepatic Impairment

- 383 Hepatic impairment influences the exposure of PROMACTA [see Clinical
- 384 *Pharmacology (12.3)]*.
- Reduce the initial dose of PROMACTA in patients with chronic ITP or severe aplastic anemia who also have hepatic impairment (Child-Pugh Class A, B, C) *[see Dosage and*
- 387 Administration (2.1) (2.3), Warnings and Precautions (5.2)]. No dosage adjustment is necessary
- for HCV patients with hepatic impairment [see Clinical Pharmacology (12.3)].
- 389 8.7 Renal Impairment
- No adjustment in the initial dose of PROMACTA is needed for patients with renal
 impairment [see Clinical Pharmacology (12.3)]. Closely monitor patients with impaired renal
- 392 function when administering PROMACTA.

393 **8.8 Ethnicity**

Patients of East Asian ethnicity (i.e., Japanese, Chinese, Taiwanese, and Korean) exhibit
higher eltrombopag exposures. A reduction in the initial dose of PROMACTA is recommended
for ITP or severe aplastic anemia patients of East Asian ancestry and patients of East Asian
ancestry with hepatic impairment (Child-Pugh Class A, B, C) [see Dosage and Administration
(2.1, 2.3)]. No dose reduction is needed in patients of East Asian ethnicity with chronic hepatitis
C [see Clinical Pharmacology (12.3)].

400 **10 OVERDOSAGE**

401 In the event of overdose, platelet counts may increase excessively and result in402 thrombotic/thromboembolic complications.

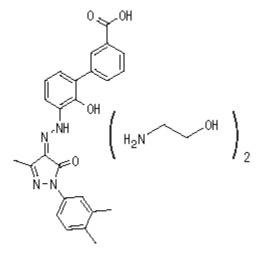
In one report, a subject who ingested 5,000 mg of PROMACTA had a platelet count increase to a maximum of 929 x 10^9 /L at 13 days following the ingestion. The patient also experienced rash, bradycardia, ALT/AST elevations, and fatigue. The patient was treated with gastric lavage, oral lactulose, intravenous fluids, omeprazole, atropine, furosemide, calcium, dexamethasone, and plasmapheresis; however, the abnormal platelet count and liver test abnormalities persisted for 3 weeks. After 2 months follow-up, all events had resolved without sequelae.

In case of an overdose, consider oral administration of a metal cation-containing preparation, such as calcium, aluminum, or magnesium preparations to chelate eltrombopag and thus limit absorption. Closely monitor platelet counts. Reinitiate treatment with PROMACTA in accordance with dosing and administration recommendations [see Dosage and Administration (2.1, 2.2)].

415 **11 DESCRIPTION**

416 PROMACTA (eltrombopag) tablets contain eltrombopag olamine, a small molecule
417 thrombopoietin (TPO) receptor agonist for oral administration. Eltrombopag interacts with the

- 418 transmembrane domain of the TPO receptor (also known as cMpl) leading to increased platelet
- 419 production. Each tablet contains eltrombopag olamine in the amount equivalent to 12.5 mg,
- 420 25 mg, 50 mg, 75 mg, or 100 mg of eltrombopag free acid.
- 421 Eltrombopag olamine is a biphenyl hydrazone. The chemical name for eltrombopag
- 422 olamine is 3'-{(2Z)-2-[1-(3,4-dimethylphenyl)-3-methyl-5-oxo-1,5-dihydro-4H-pyrazol-4-
- 423 ylidene]hydrazino}-2'-hydroxy-3-biphenylcarboxylic acid 2-aminoethanol (1:2). It has the
- 424 molecular formula $C_{25}H_{22}N_4O_4 \bullet 2(C_2H_7NO)$. The molecular weight is 564.65 for eltrombopag
- 425 olamine and 442.5 for eltrombopag free acid. Eltrombopag olamine has the following structural
- 426 formula:



- 427
- Eltrombopag olamine is practically insoluble in aqueous buffer across a pH range of 1 to 7.4, and is sparingly soluble in water.
- 430 The inactive ingredients of PROMACTA are: **Tablet Core:** magnesium stearate,
- 431 mannitol, microcrystalline cellulose, povidone, and sodium starch glycolate. Coating:
- 432 hypromellose (12.5-mg, 25-mg, 50-mg, and 75-mg tablets) or polyvinyl alcohol and talc (100-
- 433 mg tablet), polyethylene glycol 400, titanium dioxide, polysorbate 80 (12.5-mg tablet), FD&C
- 434 Yellow No. 6 aluminum lake (25-mg tablet), FD&C Blue No. 2 aluminum lake (50-mg tablet),
- 435 Iron Oxide Red and Iron Oxide Black (75-mg tablet), or Iron Oxide Yellow and Iron Oxide436 Black (100-mg tablet).

437 12 CLINICAL PHARMACOLOGY

438 **12.1 Mechanism of Action**

- Eltrombopag is an orally bioavailable, small-molecule TPO-receptor agonist that interacts
 with the transmembrane domain of the human TPO-receptor and initiates signaling cascades that
 induce proliferation and differentiation from bone marrow progenitor cells.
- 442 **12.3 Pharmacokinetics**
- 443 <u>Absorption:</u> Eltrombopag is absorbed with a peak concentration occurring 2 to 6 hours
- 444 after oral administration. Based on urinary excretion and biotransformation products eliminated 445 in feces, the oral absorption of drug-related material following administration of a single 75-mg
- 446 solution dose was estimated to be at least 52%.

- 447 An open-label, randomized, crossover trial was conducted to assess the effect of food on 448 the bioavailability of eltrombopag. A standard high-fat breakfast significantly decreased plasma 449 eltrombopag $AUC_{0-\infty}$ by approximately 59% and C_{max} by 65% and delayed T_{max} by 1 hour. The 450 calcium content of this meal may have also contributed to this decrease in exposure.
- <u>Distribution:</u> The concentration of eltrombopag in blood cells is approximately 50% to
 79% of plasma concentrations based on a radiolabel study. *In vitro* studies suggest that
 eltrombopag is highly bound to human plasma proteins (greater than 99%). Eltrombopag is a
 substrate of BCRP, but is not a substrate for P-glycoprotein (P-gp) or OATP1B1.
- 455 <u>Metabolism:</u> Absorbed eltrombopag is extensively metabolized, predominantly through 456 pathways including cleavage, oxidation, and conjugation with glucuronic acid, glutathione, or 457 cysteine. *In vitro* studies suggest that CYP1A2 and CYP2C8 are responsible for the oxidative 458 metabolism of eltrombopag. UGT1A1 and UGT1A3 are responsible for the glucuronidation of 459 eltrombopag.
- <u>Elimination:</u> The predominant route of eltrombopag excretion is via feces (59%), and
 31% of the dose is found in the urine. Unchanged eltrombopag in feces accounts for
 approximately 20% of the dose; unchanged eltrombopag is not detectable in urine. The plasma
 elimination half-life of eltrombopag is approximately 21 to 32 hours in healthy subjects and 26
 to 35 hours in ITP patients.
- 465 <u>Drug Interactions</u>: *Polyvalent Cation-containing Antacids:* In a clinical trial, 466 coadministration of 75 mg of PROMACTA with a polyvalent cation-containing antacid 467 (1,524 mg aluminum hydroxide, 1,425 mg magnesium carbonate, and sodium alginate) to 26 468 healthy adult subjects decreased plasma eltrombopag $AUC_{0-\infty}$ and C_{max} by approximately 70%. 469 The contribution of sodium alginate to this interaction is not known.
- 470 *Cytochrome P450 Enzymes (CYPs):* In a clinical trial, PROMACTA 75 mg once
 471 daily was administered for 7 days to 24 healthy male subjects did not show inhibition or
 472 induction of the metabolism of a combination of probe substrates for CYP1A2 (caffeine),
 473 CYP2C19 (omeprazole), CYP2C9 (flurbiprofen), or CYP3A4 (midazolam) in humans. Probe
 474 substrates for CYP2C8 were not evaluated in this trial.
- 475 *Rosuvastatin:* In a clinical trial, coadministration of 75 mg of PROMACTA once 476 daily for 5 days with a single 10-mg dose of the OATP1B1 and BCRP substrate, rosuvastatin to 477 39 healthy adult subjects increased plasma rosuvastatin $AUC_{0-\infty}$ by 55% and C_{max} by 103%.
- 478Protease Inhibitors: HIV Protease Inhibitors: In a clinical trial, coadministration of479repeat-dose lopinavir 400 mg/ritonavir 100 mg twice daily with a single dose of PROMACTA480100 mg to 40 healthy adult subjects decreased plasma eltrombopag $AUC_{0-\infty}$ by 17%.
- 481 *HCV Protease Inhibitors:* In a clinical trial, coadministration of repeat-dose 482 telaprevir 750 mg every 8 hours or boceprevir 800 mg every 8 hours with a single dose of 483 PROMACTA 200 mg to healthy adult subjects did not alter plasma telaprevir, boceprevir, or 484 eltrombopag $AUC_{0-\infty}$ or C_{max} to a significant extent.
- 485 Pegylated Interferon alfa-2a + Ribavirin and Pegylated Interferon alfa-2b +
 486 Ribavirin: The pharmacokinetics of eltrombopag in both the presence and absence of pegylated

interferon alfa 2a and 2b therapy were evaluated using a population pharmacokinetic analysis in
635 patients with chronic hepatitis C. The population PK model estimates of clearance indicate
no significant difference in eltrombopag clearance in the presence of pegylated interferon alfa

490 plus ribavirin therapy.

491 *In vitro Studies*: Eltrombopag is an inhibitor of CYP2C8 and CYP2C9 *in vitro*.
492 Eltrombopag is an inhibitor of UGT1A1, UGT1A3, UGT1A4, UGT1A6, UGT1A9, UGT2B7,
493 and UGT2B15 *in vitro*. Eltrombopag is an inhibitor of the organic anion transporting polypeptide

- 494 OATP1B1 and BCRP *in vitro*.
- 495 <u>Specific Populations:</u> *Ethnicity:* Based on two population PK analyses of eltrombopag
 496 concentrations in ITP and chronic hepatitis C patients, East Asian (i.e., Japanese, Chinese,
 497 Taiwanese, and Korean) subjects exhibited 50% to 55% higher eltrombopag plasma
 498 concentrations compared with non-East Asian subjects [see Dosage and Administration (2.1,
 499 2.3)].
- An approximately 40% higher systemic eltrombopag exposure in healthy AfricanAmerican subjects was noted in at least one clinical pharmacology trial. The effect of AfricanAmerican ethnicity on exposure and related safety and efficacy of eltrombopag has not been
 established.
- 504 *Hepatic Impairment:* In a pharmacokinetic trial, the disposition of a single 50-mg 505 dose of PROMACTA in patients with mild, moderate, and severe hepatic impairment was 506 compared with subjects with normal hepatic function. The degree of hepatic impairment was 507 based on Child-Pugh score. Plasma eltrombopag AUC_{$0-\infty$} was 41% higher in patients with mild 508 hepatic impairment (Child-Pugh Class A) compared with subjects with normal hepatic function. 509 Plasma eltrombopag AUC_{0-∞} was approximately 2-fold higher in patients with moderate (Child-510 Pugh Class B) and severe hepatic impairment (Child-Pugh Class C). The half-life of eltrombopag 511 was prolonged 2-fold in these patients. This clinical trial did not evaluate protein binding effects. 512 Chronic Liver Disease: A population PK analysis in thrombocytopenic patients with 513 chronic liver disease following repeat doses of eltrombopag demonstrated that mild hepatic 514 impairment resulted in an 87% to 110% higher plasma eltrombopag AUC_(0- τ) and patients with 515 moderate hepatic impairment had approximately 141% to 240% higher plasma eltrombopag 516 $AUC_{(0-\tau)}$ values compared with patients with normal hepatic function. The half-life of eltrombopag was prolonged 3-fold in patients with mild hepatic impairment and 4-fold in 517 518 patients with moderate hepatic impairment. This clinical trial did not evaluate protein binding 519 effects.
- 520 *Chronic Hepatitis C:* A population PK in 28 healthy adults and 635 patients with 521 chronic hepatitis C demonstrated that patients with chronic hepatitis C treated with PROMACTA
- 522 had higher plasma AUC_(0- τ) values as compared with healthy subjects, and AUC_(0- τ) increased
- 523 with increasing Child-Pugh score. Patients with chronic hepatitis C and mild hepatic impairment
- had approximately 100% to 144% higher plasma $AUC_{(0-\tau)}$ compared with healthy subjects. This
- 525 clinical trial did not evaluate protein binding effects.

526 *Renal Impairment:* The disposition of a single 50-mg dose of PROMACTA in

- 527 patients with mild (creatinine clearance [CrCl] of 50 to 80 mL/min), moderate (CrCl of 30 to
- 528 49 mL/min), and severe (CrCl less than 30 mL/min) renal impairment was compared with
- subjects with normal renal function. Average total plasma eltrombopag AUC $_{0-\infty}$ was 32% to 36%
- 530 lower in subjects with mild to moderate renal impairment and 60% lower in subjects with severe
- renal impairment compared with healthy subjects. The effect of renal impairment on unbound
- 532 (active) eltrombopag exposure has not been assessed.

533 **12.6 Assessment of Risk of QT/QTc Prolongation**

There is no indication of a QT/QTc prolonging effect of PROMACTA at doses up to 150 mg daily for 5 days. The effects of PROMACTA at doses up to 150 mg daily for 5 days (supratherapeutic doses) on the QT/QTc interval was evaluated in a double-blind, randomized, placebo- and positive-controlled (moxifloxacin 400 mg, single oral dose) crossover trial in healthy adult subjects. Assay sensitivity was confirmed by significant QTc prolongation by moxifloxacin.

540 13 NONCLINICAL TOXICOLOGY

541 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

542 Eltrombopag does not stimulate platelet production in rats, mice, or dogs because of
543 unique TPO receptor specificity. Data from these animals do not fully model effects in humans.
544 Eltrombopag was not carcinogenic in mice at doses up to 75 mg/kg/day or in rats at doses
545 up to 40 mg/kg/day (exposures up to 4 times the human clinical exposure based on AUC in ITP
546 patients at 75 mg/day and 2 times the human clinical exposure based on AUC in chronic hepatitis
547 C patients at 100 mg/day).

Eltrombopag was not mutagenic or clastogenic in a bacterial mutation assay or in 2 *in vivo* assays in rats (micronucleus and unscheduled DNA synthesis, 10 times the human clinical exposure based on C_{max} in ITP patients at 75 mg/day and 7 times the human clinical exposure based on C_{max} in chronic hepatitis C patients at 100 mg/day). In the *in vitro* mouse lymphoma assay, eltrombopag was marginally positive (less than 3-fold increase in mutation frequency).

- Eltrombopag did not affect female fertility in rats at doses up to 20 mg/kg/day (2 times
- the human clinical exposure based on AUC in ITP patients at 75 mg/day and similar to the
- human clinical exposure based on AUC in chronic hepatitis C patients at 100 mg/day).
- Eltrombopag did not affect male fertility in rats at doses up to 40 mg/kg/day, the highest dose
- tested (3 times the human clinical exposure based on AUC in ITP patients at 75 mg/day and 2
- times the human clinical exposure based on AUC in chronic hepatitis C patients at 100 mg/day).

559 **13.2** Animal Pharmacology and/or Toxicology

560 Eltrombopag is phototoxic *in vitro*. There was no evidence of *in vivo* cutaneous or ocular561 phototoxicity in rodents.

Treatment-related cataracts were detected in rodents in a dose- and time-dependent
manner. At greater than or equal to 6 times the human clinical exposure based on AUC in ITP
patients at 75 mg/day and 3 times the human clinical exposure based on AUC in chronic hepatitis

- 565 C patients at 100 mg/day, cataracts were observed in mice after 6 weeks and in rats after
- 566 28 weeks of dosing. At greater than or equal to 4 times the human clinical exposure based on
- 567 AUC in ITP patients at 75 mg/day and 2 times the human clinical exposure based on AUC in
- 568 chronic hepatitis C patients at 100 mg/day, cataracts were observed in mice after 13 weeks and in
- rats after 39 weeks of dosing [see Warnings and Precautions (5.4)].
- 570 Renal tubular toxicity was observed in studies up to 14 days in duration in mice and rats 571 at exposures that were generally associated with morbidity and mortality. Tubular toxicity was
- at exposures that were generally associated with morbidity and mortality. Tubular toxicity was
 also observed in a 2-year oral carcinogenicity study in mice at doses of 25, 75, and
- 573 150 mg/kg/day. The exposure at the lowest dose was 1.2 times the human clinical exposure
- 574 based on AUC in ITP patients at 75 mg/day and 0.6 times the human clinical exposure based on
- 575 AUC in chronic hepatitis C patients at 100 mg/day. No similar effects were observed in mice
- after 13 weeks at exposures greater than those associated with renal changes in the 2-year study,
- 577 suggesting that this effect is both dose- and time-dependent.
- 578 14 CLINICAL STUDIES

579 14.1 Chronic ITP

- The efficacy and safety of PROMACTA in adult patients with chronic ITP were
 evaluated in 3 randomized, double-blind, placebo-controlled trials and in an open-label extension
 trial.
- 583 <u>Trials 1 and 2:</u> In trials 1 and 2, patients who had completed at least one prior ITP 584 therapy and who had a platelet count less than 30×10^9 /L were randomized to receive either 585 PROMACTA or placebo daily for up to 6 weeks, followed by 6 weeks off therapy. During the
- trials, PROMACTA or placebo was discontinued if the platelet count exceeded 200 x 10^{9} /L. The
- 587 primary efficacy endpoint was response rate, defined as a shift from a baseline platelet count of 10^{9}
- less than $30 \ge 10^{9}$ /L to greater than or equal to $50 \ge 10^{9}$ /L at any time during the treatment period.
- 590 The median age of the patients was 50 years and 60% were female. Approximately 70%
- 591 of the patients had received at least 2 prior ITP therapies (predominantly corticosteroids,
- 592 immunoglobulins, rituximab, cytotoxic therapies, danazol, and azathioprine) and 40% of the
- 593 patients had undergone splenectomy. The median baseline platelet counts (approximately 18 x
- 594 10^{9} /L) were similar among all treatment groups.
- 595 Trial 1 randomized 114 patients (2:1) to PROMACTA 50 mg or placebo. Trial 2 596 randomized 117 patients (1:1:1) among placebo or 1 of 3 dose regimens of PROMACTA, 597 30 mg, 50 mg, or 75 mg each administered daily.
- 598Table 8 shows for each trial the primary efficacy outcomes for the placebo groups and the599patient groups who received the 50-mg daily regimen of PROMACTA.

601 Table 8. Trials 1 and 2 Platelet Count Response ($\geq 50 \ge 10^9$ /L) Rates in Adults with Chronic 602 Immune (Idiopathic) Thrombocytopenia

| | PROMACTA | |
|-------|--------------------------|------------|
| Trial | 50 mg Daily | Placebo |
| 1 | 43/73 (59%) ^a | 6/37 (16%) |
| 2 | 19/27 (70%) ^a | 3/27 (11%) |

603

^a *P* value <0.001 for PROMACTA versus placebo.

604

The platelet count response to PROMACTA was similar among patients who had or had not undergone splenectomy. In general, increases in platelet counts were detected 1 week following initiation of PROMACTA and the maximum response was observed after 2 weeks of therapy. In the placebo and 50-mg–dose groups of PROMACTA, the trial drug was discontinued due to an increase in platelet counts to greater than 200 x 10^9 /L in 3% and 27% of the patients, respectively. The median duration of treatment with the 50-mg dose of PROMACTA was

611 42 days in Trial 1 and 43 days in Trial 2.

Of 7 patients who underwent hemostatic challenges, additional ITP medications were
required in 3 of 3 placebo group patients and 0 of 4 patients treated with PROMACTA. Surgical
procedures accounted for most of the hemostatic challenges. Hemorrhage requiring transfusion
occurred in one placebo group patient and no patients treated with PROMACTA.

- 616 <u>Trial 3:</u> In this trial, 197 patients were randomized (2:1) to receive either PROMACTA 617 50 mg once daily (n = 135) or placebo (n = 62) for 6 months, during which time the dose of
- 618 PROMACTA could be adjusted based on individual platelet counts. Patients were allowed to

619 taper or discontinue concomitant ITP medications after being treated with PROMACTA for

620 6 weeks. Patients were permitted to receive rescue treatments at any time during the trial as

621 clinically indicated. The primary endpoint was the odds of achieving a platelet count greater than 622 or equal to 50×10^{9} /L and less than or equal to 400×10^{9} /L for patients receiving PROMACTA

relative to placebo and was based on patient response profiles throughout the 6-month treatmentperiod.

The median age of the patients treated with PROMACTA and placebo was 47 years and 52.5 years, respectively. Approximately half of the patients treated with PROMACTA and placebo (47% and 50%, respectively) were receiving concomitant ITP medication (predominantly corticosteroids) at randomization and had baseline platelet counts less than or

629 equal to $15 \ge 10^9$ /L (50% and 48%, respectively). A similar percentage of patients treated with 630 PROMACTA and placebo (37% and 34%, respectively) had a prior splenectomy.

In 134 patients who completed 26 weeks of treatment, a sustained platelet response (platelet count greater than or equal to $50 \ge 10^{9}$ /L and less than or equal to $400 \ge 10^{9}$ /L for 6 out of the last 8 weeks of the 26-week treatment period in the absence of rescue medication at any time) was achieved by 60% of patients treated with PROMACTA, compared with 10% of patients treated with placebo (splenectomized patients: PROMACTA 51%, placebo 8%; non-

636 splenectomized patients: PROMACTA 66%, placebo 11%). The proportion of responders in the

- 637 group of patients treated with PROMACTA was between 37% and 56% compared with 7% and
- 638 19% in the placebo treatment group for all on-therapy visits. Patients treated with PROMACTA
- 639 were significantly more likely to achieve a platelet count between 50 x 10^{9} /L and 400 x 10^{9} /L
- 640 during the entire 6-month treatment period compared with those patients treated with placebo.
- 641 Outcomes of treatment are presented in Table 9 for all patients enrolled in the trial.
- 642

Table 9. Outcomes of Treatment from Trial 3 in Adults with Chronic Immune (Idiopathic) Thrombocytopenia

| | PROMACTA | Placebo |
|---|----------|---------|
| Outcome | N = 135 | N = 62 |
| Mean number of weeks with platelet counts $\geq 50 \times 10^9/L$ | 11.3 | 2.4 |
| Requiring rescue therapy, n (%) | 24 (18) | 25 (40) |

645

Among 94 patients receiving other ITP therapy at baseline, 37 (59%) of 63 patients
treated with PROMACTA and 10 (32%) of 31 patients in the placebo group discontinued
concomitant therapy at some time during the trial.

649 <u>Extension Trial:</u> Patients who completed any prior clinical trial with PROMACTA were 650 enrolled in an open-label, single-arm trial in which attempts were made to decrease the dose or 651 eliminate the need for any concomitant ITP medications. PROMACTA was administered to 299 652 patients; 249 completed 6 months, 210 patients completed 12 months, and 138 patients 653 completed 24 months of therapy. The median baseline platelet count was 19 x 10⁹/L prior to 654 administration of PROMACTA.

655 14.2 Chronic Hepatitis C-associated Thrombocytopenia

656 The efficacy and safety of PROMACTA for the treatment of thrombocytopenia in adult 657 patients with chronic hepatitis C were evaluated in 2 randomized, double-blind, placebocontrolled trials. Trial 1 utilized peginterferon alfa-2a (PEGASYS[®]) plus ribavirin for antiviral 658 treatment and Trial 2 utilized peginterferon alfa-2b (PEGINTRON[®]) plus ribavirin. In both trials, 659 patients with a platelet count of less than 75 x 10^9 /L were enrolled and stratified by platelet 660 661 count, screening HCV RNA, and HCV genotype. Patients were excluded if they had evidence of 662 decompensated liver disease with Child-Pugh score greater than 6 (class B and C), history of 663 ascites, or hepatic encephalopathy. The median age of the patients in both trials was 52 years, 664 63% were male, and 74% were Caucasian. Sixty-nine percent of patients had HCV genotypes 1, 4, 6 with the remainder genotypes 2 and 3. Approximately 30% of patients had been previously 665 666 treated with interferon and ribavirin. The majority of patients (90%) had bridging fibrosis and 667 cirrhosis, as indicated by noninvasive testing. A similar proportion (95%) of patients in both 668 treatment groups had Child-Pugh level A (score 5-6) at baseline. A similar proportion of patients 669 (2%) in both treatment groups had baseline international normalized ratio (INR) greater than 1.7. Median baseline platelet counts (approximately $60 \ge 10^{9}$ /L) were similar in both treatment 670 671 groups. The trials consisted of two phases – a pre-antiviral treatment phase and an antiviral 672 treatment phase. In the pre-antiviral treatment phase, patients received open-label PROMACTA

- to increase the platelet count to a threshold of greater than or equal to 90×10^9 /L for Trial 1 and
- 674 greater than or equal to $100 \ge 10^{9}$ /L for Trial 2. PROMACTA was administered at an initial dose
- of 25 mg once daily for 2 weeks and increased in 25-mg increments over 2- to 3-week periods to
- achieve the optimal platelet count to initiate antiviral therapy. The maximal time patients could
- 677 receive open-label PROMACTA was 9 weeks. If threshold platelet counts were achieved,
- patients were randomized (2:1) to the same dose of PROMACTA at the end of the pre-treatment
- 679 phase or to placebo. PROMACTA was administered in combination with pegylated interferon
- and ribavirin per their respective prescribing information for up to 48 weeks.

681 The primary efficacy endpoint for both trials was sustained virologic response (SVR) 682 defined as the percentage of patients with undetectable HCV-RNA at 24 weeks after completion 683 of antiviral treatment. The median time to achieve the target platelet count greater than or equal 684 to 90 x 10^9 /L was approximately 2 weeks. Ninety-five percent of patients were able to initiate 685 antiviral therapy.

In both trials, a significantly greater proportion of patients treated with PROMACTA achieved SVR (see Table 10). The improvement in the proportion of patients who achieved SVR was consistent across subgroups based on baseline platelet count (less than $50 \ge 10^9$ /L versus greater than or equal to $50 \ge 10^9$ /L). In patients with high baseline viral loads (greater than or equal to 800,000), the SVR rate was 18% (82/452) for PROMACTA versus 8% (20/239) for placebo.

692

| | Trial | 1 ^a | Trial | 2 ^b |
|---|---------------------|--------------------|---------------------|--------------------|
| Pre-antiviral Treatment Phase | N = 715 | | N = 805 | |
| % Patients who achieved target platelet counts and initiated antiviral therapy ^c | 95% | | 94% | |
| | PROMACTA N = 450 | Placebo N = 232 | PROMACTA N = 506 | Placebo N = 253 |
| Antiviral Treatment Phase | % | % | % | % |
| Overall SVR ^d | 23 | 14 | 19 | 13 |
| HCV Genotype 2,3 | 35 | 24 | 34 | 25 |
| HCV Genotype 1,4,6 | 18 | 10 | 13 | 7 |

693 Table 10. Trials 1 and 2 Sustained Virologic Response in Adults with Chronic Hepatitis C

- ^a PROMACTA given in combination with peginterferon alfa-2a (180 mcg once weekly for
 48 weeks for genotypes 1/4/6; 24 weeks for genotype 2 or 3) plus ribavirin (800 to 1,200 mg
 daily in 2 divided doses orally).
- ^b PROMACTA given in combination with peginterferon alfa-2b (1.5 mcg/kg once weekly for
 48 weeks for genotypes 1/4/6; 24 weeks for genotype 2 or 3) plus ribavirin (800 to 1,400 mg
 daily in 2 divided doses orally).
- ^c Target platelet count was $\ge 90 \ge 10^9$ /L for Trial 1 and $\ge 100 \ge 10^9$ /L for Trial 2.
- 701 ^d P value <0.05 for PROMACTA versus placebo.

The majority of patients treated with PROMACTA (76%) maintained a platelet count greater than or equal to 50×10^9 /L compared with 19% for placebo. A greater proportion of patients on PROMACTA did not require any antiviral dose reduction as compared with placebo (45% versus 27%).

707 14.3 Severe Aplastic Anemia

708 PROMACTA was studied in a single-arm, single-center, open-label trial in 43 patients 709 with severe aplastic anemia who had an insufficient response to at least one prior 710 immunosuppressive therapy and who had a platelet count less than or equal to 30×10^9 /L. 711 PROMACTA was administered at an initial dose of 50 mg once daily for 2 weeks and increased 712 over 2 week periods up to a maximum dose of 150 mg once daily. The primary endpoint was 713 hematologic response assessed after 12 weeks of treatment with PROMACTA. Hematologic 714 response was defined as meeting 1 or more of the following criteria: 1) platelet count increases to 20×10^9 /L above baseline, or stable platelet counts with transfusion independence for a 715 716 minimum of 8 weeks; 2) hemoglobin increase by greater than 1.5 g/dL, or a reduction in greater 717 than or equal to 4 units of RBC transfusions for 8 consecutive weeks; 3) ANC increase of 100% 718 or an ANC increase greater than 0.5×10^9 /L. PROMACTA was discontinued after 16 weeks if 719 no hematologic response was observed. Patients who responded continued therapy in an

720 extension phase of the trial.

The treated population had median age of 45 years (range 17 to 77 years) and 56% were male. At baseline, the median platelet count was 20×10^{9} /L, hemoglobin was 8.4 g/dL, ANC was 0.58 x 10⁹/L and absolute reticulocyte count was 24.3 x10⁹/L. Eighty-six percent of patients were RBC transfusion dependent and 91% were platelet transfusion dependent. The majority of patients (84%) received at least 2 prior immunosuppressive therapies. Three patients had

- 726 cytogenetic abnormalities at baseline.
- 727

702

Table 11 presents the primary efficacy results.

728

729 Table 11. Hematologic Response in Patients with Severe Aplastic Anemia

| | PROMACTA |
|--|---------------------------|
| Outcome | N = 43 |
| Response rate ^a , n (%) | 17 (40) |
| 95% CI (%) | (25, 56) |
| Median of duration of response in months (95%CI) | NR^{b} (3.0, NR^{b}) |

730 ^a Includes single- and multi-lineage.

731 ^b NR = Not reached due to few events (relapsed).

732

733In the 17 responders, the platelet transfusion-free period ranged from 8 to 1,096 days with

a median of 200 days, and the RBC transfusion-free period ranged from 15 to 1,082 days with a median of 208 days

median of 208 days.

736 In the extension phase, 8 patients achieved a multi-lineage response; 4 of these patients 737 subsequently tapered off treatment with PROMACTA and maintained the response (median 738 follow up: 8.1 months, range: 7.2 to 10.6 months).

739

HOW SUPPLIED/STORAGE AND HANDLING 16

- 740 The 12.5-mg tablets are round, biconvex, white, film-coated tablets debossed with GS MZ1 • 741 and 12.5 on one side and are available in bottles of 30: NDC 0007-4643-13.
- 742 The 25-mg tablets are round, biconvex, orange, film-coated tablets debossed with GS NX3 • 743 and 25 on one side and are available in bottles of 30: NDC 0007-4640-13.
- 744 The 50-mg tablets are round, biconvex, blue, film-coated tablets debossed with GS UFU and • 745 50 on one side and are available in bottles of 30: NDC 0007-4641-13.
- 746 The 75-mg tablets are round, biconvex, pink, film-coated tablets debossed with GS FFS and • 747 75 on one side and are available in bottles of 30: NDC 0007-4642-13.
- 748 The 100-mg tablets are round, biconvex, green, film-coated tablets debossed with GS 1L5 • 749 and are available in bottles of 30: NDC 0007-4646-13. This product contains a desiccant.
- 750 Store at room temperature between 20°C and 25°C (68°F to 77°F); excursions permitted

751 to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature]. Do not remove

752 desiccant if present. Dispense in original bottle.

753 17 PATIENT COUNSELING INFORMATION

- 754 See FDA-approved patient labeling (Medication Guide).
- 755 Prior to treatment, patients should fully understand and be informed of the following risks 756 and considerations for PROMACTA:
- For patients with chronic ITP, therapy with PROMACTA is administered to achieve and 757 • 758 maintain a platelet count greater than or equal to $50 \ge 10^9$ /L as necessary to reduce the risk 759 for bleeding.
- 760 For patients with chronic hepatitis C, therapy with PROMACTA is administered to achieve • 761 and maintain a platelet count necessary to initiate and maintain antiviral therapy with 762 pegylated interferon and ribavirin.
- 763 Therapy with PROMACTA may be associated with hepatobiliary laboratory abnormalities. •
- 764 Advise patients with chronic hepatitis C and cirrhosis that they may be at risk for hepatic ٠ 765 decompensation when receiving alfa interferon therapy.
- 766 Advise patients that they should report any of the following signs and symptoms of liver ٠ 767 problems to their healthcare provider right away.
- 768 vellowing of the skin or the whites of the eyes (jaundice)
- 769 unusual darkening of the urine •
- 770 unusual tiredness •
- 771 • right upper stomach area pain
- 772 • confusion
- 773 swelling of the stomach area (abdomen)

- Advise patients that thrombocytopenia and risk of bleeding may reoccur upon discontinuing
 PROMACTA, particularly if PROMACTA is discontinued while the patient is on
 anticoagulants or antiplatelet agents.
- Advise patients that too much PROMACTA may result in excessive platelet counts and a risk
 for thrombotic/thromboembolic complications.
- Advise patients that during therapy with PROMACTA, they should continue to avoid situations or medications that may increase the risk for bleeding.
- Advise patients to have a baseline ocular examination prior to administration of
 PROMACTA and be monitored for signs and symptoms of cataracts during therapy.
- Advise patients to keep at least a 4-hour interval between PROMACTA and foods, mineral
 supplements, and antacids which contain polyvalent cations such as iron, calcium, aluminum,
 magnesium, selenium, and zinc.
- 786
- 787 PROMACTA is a registered trademark of the GSK group of companies. The following are
- 788 registered trademarks of their respective owners: PEGASYS/Hoffmann-La Roche Inc.;
- 789 PEGINTRON/Schering Corporation.
- 790



- 791
- 792 GlaxoSmithKline
- 793 Research Triangle Park, NC 27709
- 794
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- 796
- 797 PRM:XPI
- 798

| 799 | MEDICATION GUIDE |
|------------|--|
| 800 | |
| 801 | PROMACTA [®] (pro-MAC-ta) |
| 802 | (eltrombopag) |
| 803 | tablets |
| 804 | |
| 805 | Read this Medication Guide before you start taking PROMACTA and each time you |
| 806 807 | get a refill. There may be new information. This Medication Guide does not take the place of talking with your healthcare provider about your medical condition or |
| 808 | treatment. |
| 809 | |
| 810 | What is the most important information I should know about PROMACTA? |
| 811 | |
| 812 | PROMACTA can cause serious side effects, including: |
| 813 | Liven much level to be abase in here title Chaimle and take DDOMACTA with |
| 814 | Liver problems. If you have chronic hepatitis C virus, and take PROMACTA with |
| 815 816 | interferon and ribavirin treatment, PROMACTA may increase your risk of liver |
| 817 | problems. Tell your healthcare provider right away if you have any of these signs |
| 818 | and symptoms of liver problems: |
| 819 | yellowing of the skin or the whites of the eyes (jaundice)unusual darkening of the urine |
| 820 | unusual darkening of the urine unusual tiredness |
| 820 821 | right upper stomach area pain |
| 822 | right upper stormach area pain confusion |
| 823 | swelling of the stomach area (abdomen) |
| 824 | swelling of the stomach area (abdomen) |
| 825 | See "What are the possible side effects of PROMACTA?" for other side |
| 826 | effects of PROMACTA. |
| 827 | |
| 828 | What is PROMACTA? |
| 829 | |
| 830 | PROMACTA is a prescription medicine used to treat people with: |
| 831 | low blood platelet counts due to chronic immune (idiopathic) thrombocytopenia |
| 832 | (ITP), when other medicines to treat your ITP or surgery to remove the spleen |
| 833 | have not worked well enough |
| 834 | • low blood platelet counts due to chronic hepatitis C virus (HCV) infection before |
| 835 | and during treatment with interferon |
| 836 | • severe aplastic anemia (SAA) when other medicines to treat your SAA have not |
| 837 | worked well enough |
| 838 | |

| 839 840 841 | PROMACTA is used to try to raise your platelet count in order to lower your risk for bleeding. |
|---|--|
| 842 843 | PROMACTA is not used to make your platelet count normal. |
| 844 845 846 847 | PROMACTA is for treatment of certain people with low platelet counts caused by chronic ITP, chronic HCV, or SAA, not low platelet counts caused by other conditions or diseases. |
| 848 849 850 | It is not known if PROMACTA is safe and effective when used with other antiviral medicines that are approved to treat chronic hepatitis C. |
| 851 852 | It is not known if PROMACTA is safe and effective in children. |
| 853 854 | What should I tell my healthcare provider before taking PROMACTA? |
| 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 | Before you take PROMACTA, tell your healthcare provider if you: have liver or kidney problems have or had a blood clot have a history of cataracts have had surgery to remove your spleen (splenectomy) have bleeding problems are Asian and you are of Chinese, Japanese, Taiwanese, or Korean ancestry. You may need a lower dose of PROMACTA. have any other medical conditions are pregnant or plan to become pregnant. It is not known if PROMACTA will harm an unborn baby. are breastfeeding or plan to breastfeed. It is not known if PROMACTA passes into your breast milk. You and your healthcare provider should decide whether you will take PROMACTA or breastfeed. You should not do both. |
| 870871872873874 | Tell your healthcare provider about all the medicines you take , including prescription and over-the-counter medicines, vitamins, and herbal supplements. PROMACTA may affect the way certain medicines work. Certain other medicines may affect the way PROMACTA works. |
| 875 876 877 878 | Especially tell your healthcare provider if you take: certain medicines used to treat high cholesterol, called "statins" a blood thinner medicine |

| 879 880 | Certain medicines may keep PROMACTA from working correctly. Take PROMACTA at least 4 hours before or 4 hours after taking these products: |
|------------|---|
| 881 | antacids used to treat stomach ulcers or heartburn |
| 882 | |
| | |
| 883 | selenium, and zinc which may be found in mineral supplements |
| 884 | |
| 885 | Ask your healthcare provider if you are not sure if your medicine is one that is listed |
| 886 | above. |
| 887 | |
| 888 | Know the medicines you take. Keep a list of them and show it to your healthcare |
| 889 | provider and pharmacist when you get a new medicine. |
| 890 | |
| 891 | How should I take PROMACTA? |
| 892 | |
| 893 | Take PROMACTA exactly as your healthcare provider tells you to take it. Do not |
| 894 | stop taking PROMACTA without talking with your healthcare provider first. Do |
| 895 | not change your dose or schedule for taking PROMACTA unless your healthcare |
| 896 | provider tells you to change it. |
| 897 | Take PROMACTA on an empty stomach, either 1 hour before or 2 hours after |
| 898 | eating food. |
| 899 | Take PROMACTA at least 4 hours before or 4 hours after eating dairy products |
| 900 | and calcium fortified juices. |
| 901 | If you miss a dose of PROMACTA, wait and take your next scheduled dose. Do |
| 902 | not take more than one dose of PROMACTA in one day. |
| 903 | If you take too much PROMACTA, you may have a higher risk of serious side |
| 904 | effects. Call your healthcare provider right away. |
| 905 | Your healthcare provider will check your platelet count during your treatment |
| 906 | with PROMACTA and change your dose of PROMACTA as needed. |
| 907 | Tell your healthcare provider about any bruising or bleeding that happens while |
| 908 | you take and after you stop taking PROMACTA. |
| 909 | |
| 910 | What should I avoid while taking PROMACTA? |
| 911 | |
| 912 | Avoid situations and medicines that may increase your risk of bleeding. |
| 913 | |
| 914 | What are the possible side effects of PROMACTA? |
| 915 | |
| 916 | PROMACTA may cause serious side effects, including: |
| 917 | |
| | |

- 918 See "What is the most important information I should know about
 919 PROMACTA?"
- Abnormal liver function tests. Your healthcare provider will order blood tests to check your liver before you start taking PROMACTA and during your treatment. In some cases treatment with PROMACTA may need to be stopped due to changes in your liver function tests.
- 924 **High platelet counts and higher risk for blood clots.** Your risk of getting a 925 blood clot is increased if your platelet count is too high during treatment with 926 PROMACTA. Your risk of getting a blood clot may also be increased during 927 treatment with PROMACTA if you have normal or low platelet counts. You may 928 have severe problems or die from some forms of blood clots, such as clots that 929 travel to the lungs or that cause heart attacks or strokes. Your healthcare 930 provider will check your blood platelet counts, and change your dose or stop 931 PROMACTA if your platelet counts get too high. Tell your healthcare provider
- right away if you have signs and symptoms of a blood clot in the leg, such as
 swelling, pain, or tenderness in your leg.
- People with chronic liver disease may be at risk for a type of blood clot in the
 stomach area. Tell your healthcare provider right away if you have stomach area
 pain that may be a symptom of this type of blood clot.
- New or worsened cataracts (a clouding of the lens in the eye). New or
 worsened cataracts have happened in people taking PROMACTA. Your healthcare
 provider will check your eyes before and during your treatment with PROMACTA.
 Tell your healthcare provider about any changes in your eyesight while taking
 PROMACTA.
- 942

943 The most common side effects of PROMACTA when used to treat chronic944 ITP are:

- 945 nausea
- 946 diarrhea
- 947 upper respiratory tract infection. Symptoms may include runny nose, stuffy948 nose, and sneezing
- 949 vomiting
- 950 muscle aches
- 951 urinary tract infection. Symptoms may include frequent or urgent need to
 952 urinate, low fever in some people, pain or burning with urination.
- pain or swelling (inflammation) in your throat or mouth (oropharyngeal pain and pharyngitis)
- 955 abnormal liver function tests
- 956 back pain
- 957 "flu" like symptoms (influenza) including fever, headache, tiredness, cough, sore

- 958 throat, and body aches
- skin tingling, itching, or burning
- 960 rash 961

962 The most common side effects when PROMACTA is used in combination 963 with other medicines to treat chronic HCV are:

- 964 low red blood cell count (anemia)
- 965 fever
- 966 tiredness
- 967 headache
- 968 nausea
- 969 diarrhea
- 970 decreased appetite
- "flu" like symptoms (influenza) including fever, headache, tiredness, cough, sore
 throat, and body aches
- 973 feeling weak
- 974 trouble sleeping
- 975 cough
- 976 itching
- 977 chills
- 978 muscle aches
- 979 hair loss
- 980 swelling in your ankles, feet, and legs
- 981
- 982 The most common side effects when PROMACTA is used to treat severe 983 aplastic anemia are:
- 984 nausea
- 985 feeling tired
- 986 cough
- 987 diarrhea
- 988 headache
- 989 pain in arms, legs, hands or feet
- 990 shortness of breath
- 991 fever
- 992 dizziness
- 993 pain in the nose or throat
- 994 abdominal pain
- 995 bruising
- 996 muscle spasms
- 997 abnormal liver function tests

| 998 | joint pain |
|------|---|
| 999 | runny nose |
| 1000 | |
| 1001 | Laboratory tests may show abnormal changes to the cells in your bone marrow. |
| 1002 | |
| 1003 | Tell your healthcare provider if you have any side effect that bothers you or that |
| 1004 | does not go away. |
| 1005 | |
| 1006 | These are not all the possible side effects of PROMACTA. For more information, ask |
| 1007 | your healthcare provider or pharmacist. |
| 1008 | |
| 1009 | Call your doctor for medical advice about side effects. You may report side effects |
| 1010 | to FDA at 1-800-FDA-1088. |
| 1011 | |
| 1012 | How should I store PROMACTA tablets? |
| 1013 | |
| 1014 | Store PROMACTA at room temperature between 68°F to 77°F (20°C to 25°C). |
| 1015 | Keep PROMACTA tightly closed in the bottle given to you. |
| 1016 | • The PROMACTA bottle may contain a desiccant pack to help keep your medicine |
| 1017 | dry. Do not remove the desiccant pack from the bottle. |
| 1018 | Keep PROMACTA and all medicines out of the reach of children. |
| 1019 | |
| 1020 | General information about the safe and effective use of PROMACTA |
| 1021 | |
| 1022 | Medicines are sometimes prescribed for purposes other than those listed in a |
| 1023 | Medication Guide. Do not use PROMACTA for a condition for which it was not |
| 1024 | prescribed. Do not give PROMACTA to other people, even if they have the same |
| 1025 | symptoms that you have. It may harm them. |
| 1026 | |
| 1027 | This Medication Guide summarizes the most important information about |
| 1028 | PROMACTA. If you would like more information, talk with your healthcare provider. |
| 1029 | You can ask your healthcare provider or pharmacist for information about |
| 1030 | PROMACTA that is written for health professionals. |
| 1031 | For more information about DDOMACTA, go to wave DDOMACTA com or cell 1,000 |
| 1032 | For more information about PROMACTA, go to www.PROMACTA.com or call 1-888- |
| 1033 | 825-5249. |
| 1034 | |

- 1035 What are the ingredients in PROMACTA?
- 1036
- 1037 **Active ingredient:** eltrombopag olamine.
- 1038 Inactive ingredients:
- Tablet Core: magnesium stearate, mannitol, microcrystalline cellulose,
 povidone, and sodium starch glycolate.
- Coating: hypromellose (12.5 mg, 25 mg, 50 mg, and 75 mg tablets) or polyvinyl alcohol and talc (100 mg tablet), polyethylene glycol 400, titanium dioxide, polysorbate 80 (12.5 mg tablet), and FD&C Yellow No. 6 aluminum lake (25 mg tablet), FD&C Blue No. 2 aluminum lake (50 mg tablet), Iron Oxide Red and Iron Oxide Black (75 mg tablet), or Iron Oxide Yellow and Iron Oxide Black (100 mg tablet).
- 1047

1048 This Medication Guide has been approved by the U.S. Food and Drug

- 1049 Administration.
- 1050
- 1051 PROMACTA is a registered trademark of the GSK group of companies.
- 1052



- 1053
- 1054 GlaxoSmithKline
- 1055 Research Triangle Park, NC 27709
- 1056
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- 1058
- 1059 Revised: August 2014
- 1060 PRM: 8MG