Food and Drug Administration Silver Spring MD 20993

NDA 204308/S-005

SUPPLEMENT APPROVAL

Silvergate Pharmaceuticals, Inc. Attention: Wayne Vallee, RPh, RAC Director, Regulatory Affairs and Product Development 7400 West 110<sup>th</sup> Street Suite 300, Overland Park, KS 66210

Dear Mr. Vallee:

Please refer to your Supplemental New Drug Application (sNDA) dated and received November 30, 2015, submitted under section 505(b)(1) of the Federal Food, Drug, and Cosmetic Act (FDCA) for Epaned (enalapril maleate) 1 mg/mL Powder (reconstituted) for Oral Solution.

This supplemental new drug application provides for labeling revised as follows (additions are marked as <u>underlined</u> <u>text</u> and deletions are marked as <u>strikethrough text</u>):

1. In **HIGHLIGHTS/RECENT MAJOR CHANGES**, the following text was added/deleted:

#### RECENT MAJOR CHANGES

Indications and Usage (1) 09/2014

Dosage and Administration (2) 09/2014

Warnings and Precautions (5) 11/2015

2. Under **WARNINGS**, the following text was added:

#### 5.2 Angioedema and Anaphylactoid Reactions

# Head and Neck Angioedema

Angioedema of the face, extremities, lips, tongue, glottis and/or larynx, including some fatal reactions, have occurred in patients treated with angiotensin converting enzyme inhibitors, including EPANED, at any time during treatment. Patients with involvement of the tongue, glottis or larynx are likely to experience airway obstruction, especially those with a history of airway surgery. EPANED should be promptly discontinued and appropriate therapy and monitoring should be provided until complete and sustained resolution of signs and symptoms of angioedema has occurred.

Patients with a history of angioedema unrelated to ACE inhibitor therapy may be at increased risk of angioedema while receiving an ACE inhibitor [see Contraindications (4)]. ACE inhibitors have been associated with a higher rate of angioedema in black than in non-black patients.

Patients receiving coadministration of ACE inhibitor and mTOR (mammalian target of rapamycin) inhibitor (e.g., temsirolimus, sirolimus, everolimus) therapy may be at increased risk for angioedema [see Drug Interactions (7.6)].

3. Under **DRUG INTERACTIONS**, the following section was added:

#### 7.6 mTOR Inhibitors

Patients taking concomitant mTOR inhibitor (e.g., temsirolimus, sirolimus, everolimus) therapy may be at increased risk for angioedema [see Warnings and Precautions (5.2)].

- 4. The **FULL PRESCRIBING INFORMATION: CONTENTS** was updated to reflect the new section 7.6.
- 5. The revision date and version number were updated.

There are no other changes from the last approved package insert.

We have completed our review of this supplemental application, and it is approved, effective on the date of this letter, for use as recommended in the enclosed, agreed-upon labeling text.

#### CONTENT OF LABELING

As soon as possible, but no later than 14 days from the date of this letter, submit the content of labeling [21 CFR 314.50(l)] in structured product labeling (SPL) format using the FDA automated drug registration and listing system (eLIST), as described at

http://www.fda.gov/ForIndustry/DataStandards/StructuredProductLabeling/default htm. Content of labeling must be identical to the enclosed labeling (text for the package insert), with the addition of any labeling changes in pending "Changes Being Effected" (CBE) supplements, as well as annual reportable changes not included in the enclosed labeling.

Information on submitting SPL files using eLIST may be found in the guidance for industry titled "SPL Standard for Content of Labeling Technical Qs and As" at

http://www.fda.gov/downloads/DrugsGuidanceComplianceRegulatoryInformation/Guidances/UCM072392.pdf.

The SPL will be accessible from publicly available labeling repositories.

Also within 14 days, amend all pending supplemental applications for this NDA, including CBE supplements for which FDA has not yet issued an action letter, with the content of labeling [21 CFR 314.50(l)(1)(i)] in MS Word format, that includes the changes approved in this supplemental application, as well as annual reportable changes and annotate each change. To facilitate review of your submission, provide a highlighted or marked-up copy that shows all changes, as well as a clean Microsoft Word version. The marked-up copy should provide appropriate annotations, including supplement number(s) and annual report date(s).

### **PROMOTIONAL MATERIALS**

You may request advisory comments on proposed introductory advertising and promotional labeling. To do so, submit the following, in triplicate, (1) a cover letter requesting advisory comments, (2) the proposed materials in draft or mock-up form with annotated references, and (3) the package insert(s) to:

Food and Drug Administration Center for Drug Evaluation and Research Division of Drug Marketing, Advertising, and Communications 5901-B Ammendale Road Beltsville, MD 20705-1266

You must submit final promotional materials and package insert(s), accompanied by a Form FDA 2253, at the time of initial dissemination or publication [21 CFR 314.81(b)(3)(i)]. Form FDA 2253 is available at <a href="http://www.fda.gov/opacom/morechoices/fdaforms/cder html">http://www.fda.gov/opacom/morechoices/fdaforms/cder html</a>; instructions are provided on page 2 of the form. For

more information about submission of promotional materials to the Division of Drug Marketing, Advertising, and Communications (DDMAC), see <a href="http://www.fda.gov/AboutFDA/CentersOffices/CDER/ucm090142">http://www.fda.gov/AboutFDA/CentersOffices/CDER/ucm090142</a> <a href="http://www.fda.gov/AboutFDA/CentersOffices/CDER/ucm09142">http://www.fda.gov/AboutFDA/CentersOffices/CDER/ucm09142</a> <a href="http://www.fda.gov/AboutFDA/CentersOffices/CDER/ucm09142">http://www.fda.gov/AboutFDA/CentersOffices/CDER/ucm09142</a> <a href="http://www.fda.gov/AboutFDA/CentersOffices/CDER/ucm09142">http://www.fda.gov/About

All promotional materials that include representations about your drug product must be promptly revised to be consistent with the labeling changes approved in this supplement, including any new safety information [21 CFR 314.70(a)(4)]. The revisions in your promotional materials should include prominent disclosure of the important new safety information that appears in the revised package labeling. Within 7 days of receipt of this letter, submit your statement of intent to comply with 21 CFR 314.70(a)(4) to the address above or by fax to 301-847-8444.

## **REPORTING REQUIREMENTS**

We remind you that you must comply with reporting requirements for an approved NDA (21 CFR 314.80 and 314.81).

If you have any questions, please call:

Lori Anne Wachter, RN, BSN Regulatory Project Manager for Safety (301) 796-3975

Sincerely,

{See appended electronic signature page}

Mary Ross Southworth, PharmD. Deputy Director for Safety Division of Cardiovascular and Renal Products Office of Drug Evaluation 1 Center for Drug Evaluation and Research

ENCLOSURE: Content of Labeling

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.
/s/
MARY R SOUTHWORTH 01/29/2016