

**CENTER FOR DRUG EVALUATION AND
RESEARCH**

APPLICATION NUMBER:

218784Orig1s000

PROPRIETARY NAME REVIEW(S)

PROPRIETARY NAME MEMORANDUM

Division of Medication Error Prevention and Analysis 2 (DMEPA 2)
Office of Medication Error Prevention and Risk Management (OMEPRM)
Office of Surveillance and Epidemiology (OSE)
Center for Drug Evaluation and Research (CDER)

*** This document contains proprietary information that cannot be released to the public***

Date of This Review:	March 13, 2024
Application Type and Number:	(NDA 218784)
Product Name, Dosage Form, and Strength:	Voranigo (vorasidenib) Tablet, 10 mg and 40 mg
Product Type:	Single Ingredient Product
Rx or OTC:	Prescription (Rx)
Applicant/Sponsor Name:	Servier Pharmaceuticals LLC. (Servier)
PNR ID #:	2023-1044725524
DMEPA 2 Safety Evaluator:	Janine Stewart, PharmD
DMEPA 2 Team Leader:	Ashleigh Lowery, PharmD
DMEPA 2 Deputy Director:	Chi-Ming (Alice) Tu, PharmD, BCPS

1 INTRODUCTION

This memorandum is to reassess the proposed proprietary name, Voranigo, which was found conditionally acceptable under (IND 140832) on October 6, 2023.^a

Thus, Servier submitted the proposed proprietary name, Voranigo, under (NDA 218784) for re-review on December 20, 2023.^b We note the product characteristic changes indicated in the table below for (NDA 218784). All other product characteristics remain the same.

Product Characteristic	Previous (IND 140832)	Current (NDA 218784)
Indication	(b) (4)	
Dosage and Frequency	(b) (4)	(b) (4)

2 DISCUSSION

2.1 MISBRANDING ASSESSMENT

The Office of Prescription Drug Promotion (OPDP) determined that Voranigo would not misbrand the proposed product. The Division of Medication Error Prevention and Analysis 2 (DMEPA 2) concurred with the findings of OPDP's assessment for Voranigo. The Division of Oncology 2 (DO2) did not comment on the findings of OPDP's assessment for Voranigo.

^a Stewart, J. Proprietary Name Review for Voranigo ((IND 140832)). Silver Spring (MD): FDA, CDER, OSE, DMEPA 2 (US); 2023 OCE 06. PNR ID No. 2023-1044725107.

^b Request for Proprietary Name Review. Boston (MA): Servier Pharmaceuticals LLC.; 2023 DEC 20. Available from: <\\CDSESUB1\EVSPROD\nda218784\0001\m1\us\118-prop-names\req-prop-name-review.pdf>

2.2 SAFETY ASSESSMENT

For re-assessment of the proposed proprietary name, Voranigo, we evaluated the previously identified names of concern considering any lessons learned from recent post-marketing experience, which may have altered our previous conclusion regarding the acceptability of the proposed proprietary name. We also evaluated previously identified names considering the change in the indication and the added dosage modifications. Our evaluation has not altered our previous conclusion regarding the acceptability of the proposed proprietary name, Voranigo.

Additionally, we searched the USAN stem list to determine if the proposed proprietary name contains any USAN stems as of the last USAN updates. The March 12, 2024 search of USAN stems did not find any USAN stems in the proposed proprietary name, Voranigo.

2.2.1 COMMUNICATION OF DMEPA'S DETERMINATION

On March 13, 2024, DMEPA 2 communicated our determination to the Division of Oncology 2 (DO2).

3 CONCLUSION

Our re-assessment did not identify any names that represent a potential source of drug name confusion. Therefore, we maintain that the proposed proprietary name, Voranigo, is conditionally acceptable.

If you have any questions or need clarifications, please contact CAPT Latonia Ford, OSE project manager, at 301-796-4901.

3.1 COMMENTS TO SERVIER PHARMACEUTICALS LLC.

We have completed our review of the proposed proprietary name, Voranigo, and have concluded that this proprietary name is conditionally acceptable.

If any of the proposed product characteristics as stated in your submission, received on December 20, 2023 are altered prior to approval of the marketing application, the proprietary name must be resubmitted for review.

4 REFERENCE

1. *United States Adopted Names (USAN) Stems*

USAN Stems List contains all the recognized USAN stems, available at <https://www.ama-assn.org/about/united-states-adopted-names/united-states-adopted-names-approved-stems>.

This is a representation of an electronic record that was signed electronically. Following this are manifestations of any and all electronic signatures for this electronic record.

/s/

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PROPRIETARY NAME REVIEW

Division of Medication Error Prevention and Analysis 2 (DMEPA 2)
Office of Medication Error Prevention and Risk Management (OMEPRM)
Office of Surveillance and Epidemiology (OSE)
Center for Drug Evaluation and Research (CDER)

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Date of This Review:	October 5, 2023
Application Type and Number:	IND 140832
Product Name and Strength:	Voranigo (vorasidenib) Tablet, 10 mg and 40 mg
Product Type:	Single Ingredient Product
Rx or OTC:	Prescription (Rx)
Applicant/Sponsor Name:	Institut de Recherches Internationales Servier (I.R.I.S.)
PNR ID #:	2023-1044725107
DMEPA 2 Safety Evaluator:	Janine Stewart, PharmD
DMEPA 2 Team Leader:	Ashleigh Lowery, PharmD
DMEPA 2 Deputy Director:	Chi-Ming (Alice) Tu, PharmD, BCPS

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1 INTRODUCTION

This review evaluates the proposed proprietary name, Voranigo, from a safety and misbranding perspective. The sources and methods used to evaluate the proposed proprietary name are outlined in the reference section and Appendix A, respectively. I.R.I.S. did not submit an external name study for this proposed proprietary name.

1.1 PRODUCT INFORMATION

The following product information is provided in the proprietary name submission received on April 18, 2023.

- Intended Pronunciation: voh-rah-nih-GOH
- Active Ingredient: vorasidenib
- Indication of Use: (b) (4)
- Route of Administration: Oral
- Dosage Form: Tablet
- Strength: 10 mg and 40 mg
- Dose and Frequency: (b) (4)
- How Supplied: 30-count bottles
- Storage: Store at 20°C to 25°C (68°F to 77°F)

2 RESULTS

The following sections provide information obtained and considered in the overall evaluation of the proposed proprietary name, Voranigo.

2.1 MISBRANDING ASSESSMENT

The Office of Prescription Drug Promotion (OPDP) determined that Voranigo would not misbrand the proposed product. The Division of Medication Error Prevention and Analysis 2 (DMEPA 2) concurred with the findings of OPDP's assessment for Voranigo. The Division of Oncology 2 (DO2) concurred with the findings of OPDP's assessment for Voranigo.

2.2 SAFETY ASSESSMENT

The following aspects were considered in the safety evaluation of the proposed proprietary name, Voranigo.

2.2.1 United States Adopted Names (USAN) Search

There is no USAN stem present in the proposed proprietary name^a.

2.2.2 Components of the Proposed Proprietary Name

I.R.I.S. indicated in their submission that the proposed proprietary name, Voranigo, was derived from the recommended INN name – vorasidenib, and the name of the pivotal Phase 3 study – INDIGO. This proprietary name is comprised of a single word. We note that the proposed proprietary name contains the following medical abbreviation:

- OR = Operating Room

Although we typically discourage the inclusion of medical abbreviations in proprietary names, we determined that the location of the abbreviation, ‘-or-’ in the infix of the name is unlikely to be separated from the surrounding letters or be misunderstood within the context of a script in a manner that would lead to confusion. Thus, in this case, we do not object to the inclusion of the letter strings ‘-or-’ in the infix of the proposed proprietary name.

2.2.3 Comments from Other Review Disciplines at Initial Review

On May 23, 2023, the Division of Oncology 2 (DO2) did not forward any comments or concerns relating to Voranigo at the initial phase of the review.

2.2.4 FDA Name Simulation Studies

Sixty-three practitioners participated in DMEPA’s prescription studies for Voranigo. The responses did not overlap with any currently marketed products nor did the responses sound or look similar to any currently marketed products or any products in the pipeline. Appendix B contains the results from the prescription simulation studies.

2.2.5 Phonetic and Orthographic Computer Analysis (POCA) Search Results

Our POCA search^b identified 121 names with a combined phonetic and orthographic score of $\geq 55\%$ or an individual phonetic or orthographic score $\geq 70\%$. These names are included in Table 1 below.

2.2.6 Names Retrieved for Review Organized by Name Pair Similarity

Table 1 lists the number of names retrieved from our POCA search. These name pairs are organized as highly similar, moderately similar or low similarity for further evaluation.

^a USAN stem search conducted on August 15, 2023.

^b POCA search conducted on August 15, 2023 in version 5.2.

Table 1. Names Retrieved for Review Organized by Name Pair Similarity	
Similarity Category	Number of Names
Highly similar name pair: combined match percentage score $\geq 70\%$	1
Moderately similar name pair: combined match percentage score $\geq 55\%$ to $\leq 69\%$	114
Low similarity name pair: combined match percentage score $\leq 54\%$	6

2.2.7 Safety Analysis of Names with Potential Orthographic, Spelling, and Phonetic Similarities

Our analysis of the 121 names contained in Table 1 determined none of the names will pose a risk for confusion with Voranigo as described in Appendices C through H.

2.2.8 Communication of DMEPA's Determination

On October 5, 2023, DMEPA 2 communicated our determination to the Division of Oncology 2 (DO2).

3 CONCLUSION

The proposed proprietary name, Voranigo, is conditionally acceptable.

If you have any questions or need clarifications, please contact CAPT Latonia Ford, OSE project manager, at 301-796-4901.

3.1 COMMENTS TO INSTITUT DE RECHERCHES INTERNATIONALES SERVIER

We have completed our review of the proposed proprietary name, Voranigo, and have concluded that this name is conditionally acceptable.

A request for proprietary name review for Voranigo should be submitted once your marketing application is submitted.

4 REFERENCES

1. **USAN Stems** (<https://www.ama-assn.org/about/united-states-adopted-names-approved-stems>)

USAN Stems List contains all the recognized USAN stems.

2. **Phonetic and Orthographic Computer Analysis (POCA)**

POCA is a system that FDA designed. As part of the name similarity assessment, POCA is used to evaluate proposed names via a phonetic and orthographic algorithm. The proposed proprietary name is converted into its phonemic representation before it runs through the phonetic algorithm. Likewise, an orthographic algorithm exists that operates in a similar fashion. POCA is publicly accessible.

Drugs@FDA

Drugs@FDA is an FDA Web site that contains most of the drug products approved in the United States since 1939. The majority of labels, approval letters, reviews, and other information are available for drug products approved from 1998 to the present. Drugs@FDA contains official information about FDA-approved *brand name* and *generic drugs*; *therapeutic biological products*, *prescription* and *over-the-counter* human drugs; and *discontinued drugs* (see Drugs @ FDA Glossary of Terms, available at http://www.fda.gov/Drugs/InformationOnDrugs/ucm079436.htm#ther_biological).

RxNorm

RxNorm contains the names of prescription and many OTC drugs available in the United States. RxNorm includes generic and branded:

- Clinical drugs – pharmaceutical products given to (or taken by) a patient with therapeutic or diagnostic intent
- Drug packs – packs that contain multiple drugs, or drugs designed to be administered in a specified sequence

Radiopharmaceuticals, contrast media, food, dietary supplements, and medical devices, such as bandages and crutches, are all out of scope for RxNorm

(<http://www.nlm.nih.gov/research/umls/rxnorm/overview.html>).

Division of Medication Errors Prevention and Analysis proprietary name consultation requests

This is a list of proposed and pending names that is generated by the Division of Medication Error Prevention and Analysis from the Access database/tracking system.

APPENDICES

Appendix A

FDA's Proprietary Name Risk Assessment evaluates proposed proprietary names for misbranding and safety concerns.

1. **Misbranding Assessment:** For prescription drug products, OPDP assesses the name for misbranding concerns. For over-the-counter (OTC) drug products, the misbranding assessment of the proposed name is conducted by DNDP. OPDP or DNDP evaluates proposed proprietary names to determine if the name is false or misleading, such as by making misrepresentations with respect to safety or efficacy. For example, a fanciful proprietary name may misbrand a product by suggesting that it has some unique effectiveness or composition when it does not (21 CFR 201.10(c)(3)). OPDP or DNDP provides their opinion to DMEPA for consideration in the overall acceptability of the proposed proprietary name.
2. **Safety Assessment:** The safety assessment is conducted by DMEPA, and includes the following:
 - a. Preliminary Assessment: We consider inclusion of USAN stems or other characteristics that when incorporated into a proprietary name may cause or contribute to medication errors (i.e., dosing interval, dosage form/route of administration, medical or product name abbreviations, names that include or suggest the composition of the drug product, etc.) See prescreening checklist below in Table 2*. DMEPA defines a medication error as any preventable event that may cause or lead to inappropriate medication use or patient harm while the medication is in the control of the health care professional, patient, or consumer. ^c

^c National Coordinating Council for Medication Error Reporting and Prevention. <https://www.nccmerp.org/about-medication-errors> Last accessed 10/05/2020.

***Table 2- Prescreening Checklist for Proposed Proprietary Name**

	Answer the questions in the checklist below. Affirmative answers to any of these questions indicate a potential area of concern that should be carefully evaluated as described in this guidance.
Y/N	Is the proposed name obviously similar in spelling and pronunciation to other names?
	Proprietary names should not be similar in spelling or pronunciation to proprietary names, established names, or ingredients of other products.
Y/N	Are there inert or inactive ingredients referenced in the proprietary name?
	Proprietary names should not incorporate any reference to an inert or inactive ingredient in a way that might create an impression that the ingredient's value is greater than its true functional role in the formulation (21 CFR 201.10(c)(4)).
Y/N	Does the proprietary name include combinations of active ingredients?
	Proprietary names of fixed combination drug products should not include or suggest the name of one or more, but not all, of its active ingredients (see 21 CFR 201.6(b)).
Y/N	Is there a United States Adopted Name (USAN) stem in the proprietary name?
	Proprietary names should not incorporate a USAN stem in the position that USAN designates for the stem.
Y/N	Is this proprietary name used for another product that does not share at least one common active ingredient?
	Drug products that do not contain at least one common active ingredient should not use the same (root) proprietary name.
Y/N	Is this a proprietary name of a discontinued product?
	Proprietary names should not use the proprietary name of a discontinued product if that discontinued drug product does not contain the same active ingredients.

- b. Phonetic and Orthographic Computer Analysis (POCA): Following the preliminary screening of the proposed proprietary name, DMEPA staff evaluates the proposed name against potentially similar names. In order to identify names with potential similarity to the proposed proprietary name, DMEPA enters the proposed proprietary name in POCA and queries the name against the following drug reference databases, Drugs@FDA, Cerner RxNorm, and names in the review pipeline using a 55% threshold in POCA. DMEPA reviews the combined orthographic and phonetic matches and group the names into one of the following three categories:
- Highly similar pair: combined match percentage score $\geq 70\%$.
 - Moderately similar pair: combined match percentage score $\geq 55\%$ to $\leq 69\%$.
 - Low similarity: combined match percentage score $\leq 54\%$.

Using the criteria outlined in the check list (Table 3-5) that corresponds to each of the three categories (highly similar pair, moderately similar pair, and low similarity), DMEPA evaluates the name pairs to determine the acceptability or non-acceptability of a proposed proprietary name. The intent of these checklists is to increase the transparency and predictability of the safety determination of whether a proposed name is vulnerable to confusion from a look-alike or sound-alike perspective. Each bullet below corresponds to the name similarity category cross-references the respective table that addresses criteria that DMEPA uses to determine whether a name presents a safety concern from a look-alike or sound-alike perspective.

- For highly similar names, differences in product characteristics often cannot mitigate the risk of a medication error, including product differences such as strength and dose. Thus, proposed proprietary names that have a combined score of ≥ 70 percent are at risk for a look-alike sound-alike confusion which is an area of concern (See Table 3).
- Moderately similar names are further evaluated to identify the presence of attributes that are known to cause name confusion.
 - Name attributes: We note that the beginning of the drug name plays a significant role in contributing to confusion. Additionally, drug name pairs that start with the same first letter and contain a shared letter string of at least 3 letters in both names are major contributing factor in the confusion of drug names^d. We evaluate all moderately similar names retrieved from POCA to identify the above attributes. These names are further evaluated to identify overlapping or similar strengths or doses.
 - Product attributes: Moderately similar names of products that have overlapping or similar strengths or doses represent an area for concern for FDA. The dose and strength information is often located in close proximity to the drug name itself on prescriptions and medication orders, and the information can be an important factor that either increases or decreases the potential for confusion between similarly named drug pairs. The ability of other product characteristics to mitigate confusion (e.g., route, frequency, dosage form) may be limited when the strength or dose overlaps. DMEPA reviews such names further, to determine whether sufficient differences exist to prevent confusion. (See Table 4).
- Names with low similarity that have no overlap or similarity in strength and dose are generally acceptable (See Table 5) unless there are data to suggest that the name might be vulnerable to confusion (e.g., prescription simulation study suggests that the name is likely to be misinterpreted as a marketed product). In these instances, we would reassign a low similarity name to the moderate similarity category and review according to the moderately similar name pair checklist.

^d Shah, M, Merchant, L, Characteristics That May Help in the Identification of Potentially Confusing Proprietary Drug Names. Therapeutic Innovation & Regulatory Science, September 2016

- c. FDA Prescription Simulation Studies: DMEPA staff also conducts a prescription simulation studies using FDA health care professionals.

Four separate studies are conducted within the Centers of the FDA for the proposed proprietary name to determine the degree of confusion of the proposed proprietary name with marketed U.S. drug names (proprietary and established) due to similarity in visual appearance with handwritten prescriptions, verbal pronunciation of the drug name or during computerized provider order entry. The studies employ healthcare professionals (pharmacists, physicians, and nurses), and attempts to simulate the prescription ordering process. The primary Safety Evaluator uses the results to identify vulnerability of the proposed name to be misinterpreted by healthcare practitioners during written, verbal, or electronic prescribing.

In order to evaluate the potential for misinterpretation of the proposed proprietary name during written, verbal, or electronic prescribing of the name, written inpatient medication orders, written outpatient prescriptions, verbal orders, and electronic orders are simulated, each consisting of a combination of marketed and unapproved drug products, including the proposed name.

- d. Comments from Other Review Disciplines: DMEPA requests the Office of New Drugs (OND) and/or Office of Generic Drugs (OGD), ONDQA or OBP for their comments or concerns with the proposed proprietary name, ask for any clinical issues that may impact the DMEPA review during the initial phase of the name review. Additionally, when applicable, at the same time DMEPA requests concurrence/non-concurrence with OPDP's decision on the name. The primary Safety Evaluator addresses any comments or concerns in the safety evaluator's assessment.

The OND/OGD Regulatory Division is contacted a second time following our analysis of the proposed proprietary name. At this point, DMEPA conveys their decision to accept or reject the name.

Additionally, other review disciplines opinions such as ONDQA or OBP may be considered depending on the proposed proprietary name.

When provided, DMEPA considers external proprietary name studies conducted by or for the Applicant/Sponsor and incorporates the findings of these studies into the overall risk assessment.

The DMEPA primary reviewer assigned to evaluate the proposed proprietary name is responsible for considering the collective findings, and provides an overall risk assessment of the proposed proprietary name.

Table 3. Highly Similar Name Pair Checklist (i.e., combined Orthographic and Phonetic score is $\geq 70\%$).

Answer the questions in the checklist below. Affirmative answers to some of these questions suggest that the pattern of orthographic or phonetic differences in the names

may render the names less likely to confusion, provided that the pair does not share a common strength or dose.

<u>Orthographic Checklist</u>		<u>Phonetic Checklist</u>	
Y/N	Do the names begin with different first letters? <i>Note that even when names begin with different first letters, certain letters may be confused with each other when scripted.</i>	Y/N	Do the names have different number of syllables?
Y/N	Are the lengths of the names dissimilar* when scripted? <i>*FDA considers the length of names different if the names differ by two or more letters.</i>	Y/N	Do the names have different syllabic stresses?
Y/N	Considering variations in scripting of some letters (such as z and f), is there a different number or placement of upstroke/downstroke letters present in the names?	Y/N	Do the syllables have different phonologic processes, such as vowel reduction, assimilation, or deletion?
Y/N	Is there different number or placement of cross-stroke or dotted letters present in the names?	Y/N	Across a range of dialects, are the names consistently pronounced differently?
Y/N	Do the infixes of the name appear dissimilar when scripted?		
Y/N	Do the suffixes of the names appear dissimilar when scripted?		

Table 4: Moderately Similar Name Pair Checklist (i.e., combined score is $\geq 55\%$ to $\leq 69\%$).

Step 1	Review the DOSAGE AND ADMINISTRATION and HOW SUPPLIED/STORAGE AND HANDLING sections of the prescribing information (or for OTC drugs refer to the Drug Facts label) to determine if strengths and doses of the name pair overlap or are very similar. Different strengths and doses for products whose names are moderately similar may decrease the risk of confusion between the moderately similar name pairs. Name pairs that have overlapping or similar strengths or doses have a higher potential for confusion and should be evaluated further (see Step 2). Because the strength or dose could be used to express an order or prescription for a particular drug product, overlap in one or both of these components would be reason for further evaluation. For single strength products, also consider circumstances where the strength may not be expressed. For any i.e., drug products comprised of more than one active ingredient, consider whether the strength or dose may be expressed using only one of the components. To determine whether the strengths or doses are similar to your proposed product, consider the following list of factors that may increase confusion: • Alternative expressions of dose: 5 mL may be listed in the prescribing information, but the dose may be expressed in metric weight (e.g., 500 mg) or in non-metric units (e.g., 1 tsp, 1 tablet/capsule). Similarly, a strength or dose of 1000 mg may be expressed, in practice, as 1 g, or vice versa. • Trailing or deleting zeros: 10 mg is similar in appearance to 100 mg which may potentiate confusion between a name pair with moderate similarity. • Similar sounding doses: 15 mg is similar in sound to 50 mg
Step 2	Answer the questions in the checklist below. Affirmative answers to some of these questions suggest that the pattern of orthographic or phonetic differences in the names may reduce the likelihood of confusion for moderately similar names <u>with</u> overlapping or similar strengths or doses.

	Orthographic Checklist (Y/N to each question) - Do the names begin with different first letters? Note that even when names begin with different first letters, certain letters may be confused with each other when scripted. - Are the lengths of the names dissimilar* when scripted? *FDA considers the length of names different if the names differ by two or more letters. - Considering variations in scripting of some letters (such as z and f), is there a different number or placement of upstroke/downstroke letters present in the names? - Is there different number or placement of cross-stroke or dotted letters present in the names? - Do the infixes of the name appear dissimilar when scripted? - Do the suffixes of the names appear dissimilar when scripted?	Phonetic Checklist (Y/N to each question) - Do the names have different number of syllables? - Do the names have different syllabic stresses? - Do the syllables have different phonologic processes, such vowel reduction, assimilation, or deletion? - Across a range of dialects, are the names consistently pronounced differently?
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Table 5: Low Similarity Name Pair Checklist (i.e., combined score is $\leq 54\%$).

Names with low similarity are generally acceptable unless there are data to suggest that the name might be vulnerable to confusion (e.g., prescription simulation study suggests that the name is likely to be misinterpreted as a marketed product). In these instances, we would reassign a low similarity name to the moderate similarity category and review according to the moderately similar name pair checklist.

Appendix B: Prescription Simulation Samples and Results

Figure 1. Voranigo Study (Conducted on August 22, 2023)

Handwritten Medication Order/Prescription	Verbal Prescription
<u>Medication Order:</u> <i>Voranigo 40mg PO q day</i> <u>Outpatient Prescription:</u> Patient _____ Date <u>8-22-23</u> Address _____ R  <i>Voranigo 10mg Take 4 tablets po once daily #120</i> Refill(s): _____ Dr. <u>OSE</u> DEA No. _____ Address _____ Telephone _____ CPOE Study Sample (displayed as sans-serif, 12-point, bold font) Voranigo	Voranigo 10 mg Take 4 tablets by mouth once daily. Dispense 120

FDA Prescription Simulation Responses (Aggregate Report)

Study Name: Voranigo - 2023-08-22					
People Received Study: 253					
People Responded: 63					
Total	15	18	12	18	63
INTERPRETATION	INPATIENT	OUTPATIENT	VOICE	CPOE	TOTAL
BORENIGO	0	0	1	0	1
VASNIGO	0	1	0	0	1
VERONIGO	0	0	3	0	3
VORANAGO	0	0	2	0	2
VORANIGO	12	13	1	18	44
VORANIGS	0	2	0	0	2
VORANIQO	0	1	0	0	1
VORARIGO	1	0	0	0	1
VORAUIGO	2	0	0	0	2
VORAZIGO	0	1	0	0	1
VORONIGO	0	0	3	0	3
VORONOGO	0	0	1	0	1
VURONIGO	0	0	1	0	1

* U.S. FDA - RX Study

* RX Study Version 4.3.0 (2023-07-27)

Appendix C: Highly Similar Names (e.g., combined POCA score is $\geq 70\%$)

No.	Proposed name: Voranigo Established name: vorasidenib Dosage form: Tablet Strength(s): 10 mg and 40 mg Usual Dose: (b) (4)	POCA Score (%)	Orthographic and/or phonetic differences in the names sufficient to prevent confusion Other prevention of failure mode expected to minimize the risk of confusion between these two names.
1.	Voranigo	100	The subject of this review.

Appendix D: Moderately Similar Names (e.g., combined POCA score is $\geq 55\%$ to $\leq 69\%$) with no overlap or numerical similarity in Strength and/or Dose

No.	Name	POCA Score (%)
1.	Oravig	68
2.	Varizig	66
3.	(b) (4) ***	66
4.	Veraring	64
5.	Orange C	62
6.	Viramune	60
7.	Vaprino	60
8.	Raniclolor	60
9.	Verazine	59
10.	Sorafenib	59
11.	Viractin	58
12.	Vaniqa	58
13.	Tivozanib	58
14.	Granix	58
15.	Foradil	58
16.	Vitron-C	56
17.	Viraferon	56
18.	Vanadom	56
19.	Daranide	56
20.	Arranon	56
21.	Ozanimod	55
22.	Givosiran	51

Appendix E: Moderately Similar Names (e.g., combined POCA score is $\geq 55\%$ to $\leq 69\%$) with overlap or numerical similarity in Strength and/or Dose

No.	Proposed name: Voranigo Established name: vorasidenib Dosage form: Tablet Strength(s): 10 mg and 40 mg Usual Dose: ^{(b) (4)}	POCA Score (%)	Prevention of Failure Mode In the conditions outlined below, the following combination of factors, are expected to minimize the risk of confusion between these two names
1.	Verzenio	66	This name pair has sufficient orthographic and phonetic differences.
2.	^{(b) (4)} ***	62	This name pair has sufficient orthographic and phonetic differences.
3.	Organidin	62	This name pair has sufficient orthographic and phonetic differences.
4.	^{(b) (4)} ***	62	This name pair has sufficient orthographic and phonetic differences.
5.	Vorinostat	60	This name pair has sufficient orthographic and phonetic differences.
6.	Lorabid	60	This name pair has sufficient orthographic and phonetic differences.
7.	Vonvendi	58	This name pair has sufficient orthographic and phonetic differences.
8.	Vesanoid	58	This name pair has sufficient orthographic and phonetic differences.
9.	Zofran Odt	58	This name pair has sufficient orthographic and phonetic differences.
10.	Tofranil	58	This name pair has sufficient orthographic and phonetic differences.
11.	Sporanox	57	This name pair has sufficient orthographic and phonetic differences.
12.	Votrient	56	This name pair has sufficient orthographic and phonetic differences.
13.	Organidin Nr	56	This name pair has sufficient orthographic and phonetic differences.
14.	Virilon Im	55	This name pair has sufficient orthographic and phonetic differences.
15.	Vancor	55	This name pair has sufficient orthographic and phonetic differences.
16.	Trancot	55	This name pair has sufficient orthographic and phonetic differences.
17.	Dayvigo	55	This name pair has sufficient orthographic and phonetic differences.

Appendix F: Low Similarity Names (e.g., combined POCA score is $\leq 54\%$)

No.	Name	POCA Score (%)
1.	Zurampic	54
2.	Orbivan	52
3.	Organ-1 Nr	49
4.	Navogan	49
5.	Harvoni	49
6.	(b) (4) ***	45

Appendix G: Names not likely to be confused or not used in usual practice settings for the reasons described.

No.	Name	POCA Score (%)	Failure preventions
1.	Volraman	68	International product marketed in United Kingdom.
2.	Viranol	66	Name identified in RxNorm and Redbook database. Product is deactivated and there are no generics available.
3.	(b) (4) ***	66	(b) (4) *** found conditionally acceptable for NDA (b) (4) however, the entire application was withdrawn by the Applicant (b) (4)
4.	Granisol	64	Name identified in RxNorm database. Product is deactivated per Redbook and no generic equivalents are available.
5.	Geraniol	63	Product is not a drug. It is an ingredient in a fragrance, an allergen, a volatile oil component and a plant metabolite.
6.	Virazid	62	International product formerly marketed in Spain.
7.	Vermidol	62	Brand discontinued with no generic equivalents available per Drugs@FDA. ANDA 080992 withdrawn FR effective May 10, 1994.
8.	Varenzin	62	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
9.	Dorama-Neo	62	International drug product marketed in Singapore.
10.	(b) (4) ***	60	Proposed proprietary name for ANDA 091209 found unacceptable by DMEPA (OSE #: 2011-1224 and 2011-1225 dated 06/22/2012). ANDA 091209 was approved under established name norethindrone.
11.	Valomag	60	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.

No.	Name	POCA Score (%)	Failure preventions
12.	(b) (4) ***	60	Proposed proprietary name for IND 132407 found acceptable (OSE# 2022-1044724821 dated January 17, 2023). However, the Applicant withdrew the name on August 25, 2022, under IND 132407. Subsequently, the proposed proprietary name Rystiggo*** was found conditionally acceptable for BLA 761286 on January 18, 2023.
13.	D&C orange No. 5	60	Product is not a drug. It is a color additive.
14.	D&C orange No. 4	60	Product is not a drug. It is a color additive
15.	D&C orange No. 11	60	Product is not a drug. It is a color additive
16.	D&C orange No. 10	60	Product is not a drug. It is a color additive
17.	Choragon	60	International drug product marketed in several countries including Belgium, Hong Kong, India, Mexico, Poland, Russia, Turkey, United Kingdom and Ukraine.
18.	Veraciti	58	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
19.	Longrange	58	Veterinary product.
20.	Lodrane D	58	Name identified in RxNorm database. Per Redbook, drug product is deactivated with no generic equivalents available.
21.	Chorigon	58	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
22.	Vanacon	57	Name identified in RxNorm database. Product is deactivated and no generic equivalents are available.
23.	(b) (4) ***	57	Proposed proprietary name for IND (b) (4) IND (b) (4) is under presubmission status dated (b) (4) with no activity in the application history (b) (4)
24.	Viravan-T	56	Name identified in RxNorm database. Product deactivated per RedBook with no generic equivalent available.
25.	Viravan-P	56	Name identified in RxNorm database. Product deactivated per RedBook with no generic equivalent available.
26.	Viravan S	56	Name identified in RxNorm database. Product deactivated per RedBook with no generic equivalent available.
27.	Verrugon	56	International product marketed in the United Kingdom.

No.	Name	POCA Score (%)	Failure preventions
28.	Vanacof-8	56	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
29.	Vanacof	56	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
30.	Zeranol	56	Veterinary drug product.
31.	Toceranib	56	Veterinary drug product.
32.	Orange Oil	56	Product is not a drug. It is an essential oil.
33.	Orabid	56	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
34.	Indoramin	56	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
35.	Doravine	56	Name identified in RxNorm database. Unable to find product characteristics in commonly used drug databases.
36.	Borate Ion	56	Product is not a drug. It is a chemical compound used in cleaning agents.
37.	Orgaran	48	Name identified in RxNorm database. Per Redbook, drug product is deactivated with no generic equivalents available.

Appendix H: Names not likely to be confused due to absence of attributes that are known to cause name confusion^e.

No.	Name	POCA Score (%)
1.	Firmagon	65
2.	Sernivo	64
3.	(b) (4) ***	62
4.	(b) (4) ***	62
5.	(b) (4) ***	62
6.	Formadon	61
7.	(b) (4) ***	60
8.	Coro-Nitro	60
9.	Zarontin	58
10.	(b) (4) ***	58

^e Shah, M, Merchant, L, Chan, I, and Taylor, K. Characteristics That May Help in the Identification of Potentially Confusing Proprietary Drug Names. Therapeutic Innovation & Regulatory Science, September 2016

No.	Name	POCA Score (%)
11.	Trovan Iv	58
12.	Orgadin	58
13.	Motrin Ib	58
14.	Foamicon	58
15.	(b) (4) ***	58
16.	(b) (4) ***	58
17.	Norfenicol	57
18.	Fortunan	57
19.	Forfivo	57
20.	Suramin	56
21.	Sorbitan	56
22.	Sarenin	56
23.	(b) (4) ***	56
24.	Normison	56
25.	Norimode	56
26.	Movantik	56
27.	Mirabegron	56
28.	Frenadol	56
29.	(b) (4) ***	56
30.	(b) (4) ***	56
31.	Duration	56
32.	Carnitor	56
33.	(b) (4) ***	56
34.	1,4-Sorbitan	56
35.	Rumagon	55
36.	Dragon	55
37.	Doriden	55
38.	Brevicon	55

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/s/

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