

**CENTER FOR DRUG EVALUATION AND
RESEARCH**

APPLICATION NUMBER:

761286Orig1s000

PROPRIETARY NAME REVIEW(S)

SUFFIX REVIEW FOR NONPROPRIETARY NAME

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:	3/27/2023
Responsible OND Division:	Division of Neurology 1 (DN 1)
Application Type and Number:	IND 132407 BLA 761286
Product Name and Strength:	Rystiggo (rozanolixumab-noli) injection, 280 mg/2 mL (140 mg/mL)
Product Type:	Single Ingredient Product
Applicant/Sponsor Name:	UCB, Inc. (UCB)
FDA Received Date:	September 1, 2022 (IND) October 24, 2022 (BLA)
Nexus NPNS ID #:	2022-124 (IND) 2022-153 (BLA)
DMAMES Biologics Suffix Specialist:	Carlos M Mena-Grillasca, BS Pharm
DMEPA 2 Deputy Director:	Chi-Ming (Alice) Tu, PharmD

1 PURPOSE OF REVIEW

This review summarizes our evaluation of the four-letter suffixes proposed by UCB for inclusion in the nonproprietary name and communicates our recommendation for the nonproprietary name for BLA 761286.

2 ASSESSMENT OF THE NONPROPRIETARY NAME

On September 1, 2022, UCB submitted a list of 9 suffixes to IND 132407, in their order of preference, to be used in the nonproprietary name of their product^a. UCB also provided findings from an external study conducted by (b) (4)^b, evaluating the proposed four-letter suffixes in conjunction with the nonproprietary name, for our consideration. Subsequently, on October 24, 2022, UCB referenced their suffix submission to IND 132407 in their BLA 761286 submission^c. Table 1 presents a list of suffixes submitted by UCB:

1.	(b) (4)
2.	noli
3.	(b) (4)
4.	
5.	
6.	
7.	
8.	

^a Nonproprietary Suffix Review Request IND 132407. Smyrna (GA): UCB, Inc.; 2022 Sep 01. Available from: [CDSESUB1EVSPRODind1324070122m1us118-proprietary-namesrozanolixizumab-proposed-suffixes.pdf](#)

^b Request for Non-Proprietary Name Suffix Review for (b) (4) -noli IND 132407. (b) (4) 2022 Sep 01. Available from: [CDSESUB1EVSPRODind1324070122m1us118-proprietary-namesrozanolixizumab-\(b\) \(4\)-suffix-report.pdf](#) and [CDSESUB1EVSPRODind1324070122m1us118-proprietary-namesrozanolixizumab-noli-suffix-report.pdf](#)

^c Notes to Reviewers BLA 761286. Smyrna (GA): UCB, Inc.: 2022 Oct 24. Available from: [CDSESUB1EVSPRODbla7612860001m1us12-cover-lettersrozi-gmg-notes-to-reviewers.pdf](#)

9.	(b) (4)
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We reviewed UCB's proposed suffixes in the order of preference listed by UCB, along with the supporting data they submitted, using the principles described in the applicable guidance.^a

2.1 rozanolixizumab-(b) (4)

UCB's first proposed suffix, -(b) (4) is comprised of 3 distinct letters (b) (4). We note that the suffix (b) (4) may evoke the word (b) (4). Therefore, we find the proposed suffix, -(b) (4) is not devoid of meaning and is therefore inconsistent with the principles described in the Nonproprietary Naming of Biological Products guidance^a.

We acknowledge that our evaluation differs from that of the external study performed by (b) (4) and submitted by the Applicant. However, the external study did not evaluate the suffix connotation of the word (b) (4).

2.2 rozanolixizumab-noli

UCB's second proposed suffix, -noli, is comprised of 4 distinct letters.

We determined that the proposed suffix -noli, is not too similar to any other products' suffix designation, does not look similar to the names of other currently marketed products, that the suffix is devoid of meaning, does not include any abbreviations that could be misinterpreted, and does not make any misrepresentations with respect to safety or efficacy of this product.

3 COMMUNICATION OF DMEPA 2 ANALYSIS

These findings were shared with OPDP. On March 23, 2023, OPDP did not identify any concerns that would render this proposed suffix unacceptable. We acknowledge OPDP's comment that the suffix -noli connotes the core name rozanolixizumab. However, DMEPA does not object to suffixes that connote their own core name. DMEPA 2 also communicated our findings to the Division of Neurology 1 (DN 1) on March 27, 2023.

^a Guidance for Industry: Nonproprietary Naming of Biological Products. 2017. Available from: <http://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM459987.pdf>

4 CONCLUSION

We find UCB's proposed suffix -noli acceptable and recommend the nonproprietary name be revised throughout the draft labels and labeling to rozanolixizumab-noli. DMEPA 2 will communicate our findings to the Applicant via letter.

4.1 Recommendations for UCB, Inc.

We find the nonproprietary name, rozanolixizumab-noli, conditionally acceptable for your proposed product. Should your 351(a) BLA be approved during this review cycle, rozanolixizumab-noli will be the proper name designated in the license. You should revise your proposed labels and labeling accordingly and submit the revised labels and labeling to your BLA for our review. However, please be advised that if your application receives a complete response, the acceptability of your proposed suffix will be re-evaluated when you respond to the deficiencies. If we find your suffix unacceptable upon our re-evaluation, we will inform you of our findings.

We also note that the first proposed suffix is unacceptable for the following reasons:

1. rozanolixizumab- (b) (4)

We note that the suffix - (b) (4) may evoke the word (b) (4). Therefore, we find the proposed suffix, - (b) (4) is not devoid of meaning and is therefore inconsistent with the principles described in the Nonproprietary Naming of Biological Products guidance^a.

We acknowledge our evaluation differs from that of the external study performed by (b) (4). However, the external study did not evaluate the suffix connotation of the word (b) (4).

^a Guidance for Industry: Nonproprietary Naming of Biological Products. 2017. Available from: <http://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM459987.pdf>

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/s/

CARLOS M MENA-GRILLASCA
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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:	January 18, 2023
Application Type and Number:	BLA 761286
Product Name and Strength:	Rystiggo (rozanolixizumab- ^{(b) (4)}) ^a injection, 280 mg/2 mL (140 mg/mL)
Product Type:	Single Ingredient Product
Rx or OTC:	Prescription (Rx)
Applicant/Sponsor Name:	UCB, Inc (UCB)
PNR ID #:	2022-1044724821
DMEPA 2 Safety Evaluator:	Chad Morris, PharmD, MPH
DMEPA 2 Acting Team Leader:	Stephanie DeGraw, PharmD
DMEPA 2 Director:	Danielle Harris, PharmD

^a The proposed nonproprietary name with suffix “rozanolixizumab-^{(b) (4)}” is used in the labeling submitted under BLA 761286 and is used throughout this review. However, the acceptability of the suffix is still under review by the Agency.

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1 INTRODUCTION

This review evaluates the proposed proprietary name, Rystiggo, 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. UCB submitted an external name study, conducted by (b) (4) for this proposed proprietary name.

1.1 REGULATORY HISTORY

UCB previously submitted the proposed proprietary name, (b) (4)*** under IND 132407 on April 17, 2020. However, on October 2, 2020, we found the name, (b) (4)*** unacceptable due to orthographic similarities and shared product characteristics with the proprietary name, (b) (4) b.

UCB then submitted the proposed proprietary name, (b) (4)*** under IND 132407 on January 8, 2021. We found the name, (b) (4)*** acceptable^c; however, UCB withdrew the name on August 25, 2022.

Thus, UCB submitted the name, Rystiggo, under BLA 761286 for review on October 28, 2022.

1.2 PRODUCT INFORMATION

The following product information is provided in the prescribing information and proprietary name submissions received on October 24, 2022 and October 28, 2022, respectively.

- Intended Pronunciation: ris-TIG-oh
- Nonproprietary Name: rozanolixizumab- (b) (4)
- Indication of Use: treatment of generalized myasthenia gravis (gMG) in adult patients who are anti-acetylcholine receptor (AChR) or anti-muscle-specific tyrosine kinase (MuSK) antibody positive
- Route of Administration: subcutaneous infusion
- Dosage Form: injection
- Strength: 280 mg/2 mL (140 mg/mL)
- Dose and Frequency: 420 mg (3 mL) or 560 mg (4 mL) once weekly for 6 weeks
- How Supplied: Carton containing one single dose vial
- Storage: Store vials refrigerated at 36° to 46°F (2° to 8°C) in the original carton until the time of use. Do not freeze. Vials may be stored at room temperature up to 77°F (25°C) for a single period of up to 30 days in the original carton to protect the vial from light. Once a vial has been stored at room temperature, it should not be returned to the

^b Morris, C. Proprietary Name Review for (b) (4) (IND 132407). Silver Spring (MD): FDA, CDER, OSE, DMEPA (US); 2020 OCT 02. PNR ID No. 2020-39328431.

^c Morris, C. Proprietary Name Review for (b) (4) (IND 132407). Silver Spring (MD): FDA, CDER, OSE, DMEPA (US); 2021 JUL 08. PNR ID No. 2021-1044670313.

refrigerator. Write the date removed from the refrigerator in the space provided on the carton and discard if not used within 30 days or if the expiration date has passed, whichever occurs first. (b) (4)
Does not contain a preservative; discard any unused portion.

2 RESULTS

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

2.1 MISBRANDING ASSESSMENT

The Office of Prescription Drug Promotion (OPDP) determined that Rystiggo would not misbrand the proposed product. The Division of Medication Error Prevention and Analysis 2 (DMEPA 2) and the Division of Neurology 1 (DN 1) concurred with the findings of OPDP's assessment for Rystiggo.

2.2 SAFETY ASSESSMENT

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

2.2.1 United States Adopted Names (USAN) Search

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

2.2.2 Components of the Proposed Proprietary Name

UCB did not provide a derivation or intended meaning for the proposed proprietary name, Rystiggo, in their submission. This proprietary name is comprised of a single word that does not contain any components (i.e. a modifier, route of administration, dosage form, etc.) that can contribute to medication error.

2.2.3 Comments from Other Review Disciplines at Initial Review

On November 13, 2022, the Division of Neurology 1 (DN 1) did not forward any comments or concerns relating to Rystiggo at the initial phase of the review.

2.2.4 FDA Name Simulation Studies

Eighty-seven practitioners participated in DMEPA's prescription studies for Rystiggo. 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.

^d USAN stem search conducted on December 9, 2022.

2.2.5 *Phonetic and Orthographic Computer Analysis (POCA) Search Results*

Our POCA search^e identified 30 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 and the (b) (4) external name study. These name pairs are organized as highly similar, moderately similar or low similarity for further evaluation.

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 $\leq 69\%$	29
Low similarity name pair: combined match percentage score $\leq 54\%$	0

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

Our analysis of the 30 names contained in Table 1 determined none of the names will pose a risk for confusion with Rystiggo as described in Appendices C through H.

2.2.8 *Communication of DMEPA's Determination*

On January 13, 2023, DMEPA 2 communicated our determination to the Division of Neurology 1 (DN 1).

3 CONCLUSION

The proposed proprietary name, Rystiggo, is conditionally acceptable.

If you have any questions or need clarifications, please contact Lopa Thambi, OSE project manager, at 301-796-5354.

3.1 COMMENTS TO UCB, INC

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

^e POCA search conducted on December 1, 2022 in version 5.1.

If any of the proposed product characteristics as stated in your submission, received on October 28, 2022, are altered prior to approval of the marketing application, the name must be resubmitted for review.

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 DNNDP. OPDP or DNNDP 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 DNNDP 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. ^f

^f 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, CernerRxNorm, 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[§]. 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.

[§] 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 $\geq 70\%$).

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

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

<p>Step 1</p>	<p>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.</p> <p>For single strength products, also consider circumstances where the strength may not be expressed.</p> <p>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.</p> <p>To determine whether the strengths or doses are similar to your proposed product, consider the following list of factors that may increase confusion:</p> <ul style="list-style-type: none"> • 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
<p>Step 2</p>	<p>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 with overlapping or similar strengths or doses.</p>

	<p>Orthographic Checklist (Y/N to each question)</p> <ul style="list-style-type: none"> • 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 <i>z</i> and <i>f</i>), 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? 	<p>Phonetic Checklist (Y/N to each question)</p> <ul style="list-style-type: none"> • Do the names have different number of syllables? • Do the names have different syllabic stresses? • Do the syllables have different phonologic processes, such as 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 ≤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. Rystiggo Study (Conducted on November 10, 2022)

Handwritten Medication Order/Prescription	Verbal Prescription
<p>Medication Order:</p> <p><i>Rystiggo 560mg via SQ infusion today</i></p>	<p>Rystiggo</p> <p>Take to clinic</p> <p>#1 vial</p>
<p>Outpatient Prescription:</p> <p><i>Rystiggo</i></p> <p><i>Take to clinic</i></p> <p><i># 1 vial</i></p>	
<p>CPOE Study Sample (displayed as sans-serif, 12-point, bold font)</p>	
<p>Rystiggo</p>	

FDA Prescription Simulation Responses (Aggregate Report)

Study Name: Rystiggo

As of Date 12/9/2022

263 People Received Study

87 People Responded

Study Name: Rystiggo

Total	20	23	23	21	
INTERPRETATION	INPATIENT	CPOE	VOICE	OUTPATIENT	TOTAL
RESTIGO	0	0	11	0	11
RISTEGO	0	0	1	0	1
RISTIGGO	0	0	1	0	1
RISTIGNO	0	0	1	0	1
RISTIGO	0	0	7	0	7
RUSTIGGO	0	0	0	1	1
RYSTIGGO	13	23	1	20	57
RYSTIGGO 560MG	1	0	0	0	1
RYSTIGGS	3	0	0	0	3
RYSTIGPO	1	0	0	0	1
RYSTIQGO	1	0	0	0	1
RYSTIQGO	1	0	0	0	1
RYZTADO	0	0	1	0	1

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

No.	Proposed name: Rystiggo Established name: rozanolixizumab- ^(b) ₍₄₎ Dosage form: injection Strength(s): 280 mg/2 mL (140 mg/mL) Usual Dose: 420 mg (3 mL) or 560 mg (4 mL) once weekly	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.	Rystiggo***	100	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.	Cystagon	60
2.	Restasis	60
3.	Crysti-12	59
4.	Restoril	58
5.	Crystamine	57
6.	Pristiq	57

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: Rystiggo Established name: rozanolixizumab- ^(b) ₍₄₎ Dosage form: injection Strength(s): 280 mg/2 mL (140 mg/mL) Usual Dose: 420 mg (3 mL) or 560 mg (4 mL) once weekly	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.	Rescon-Gg	62	This name pair has sufficient orthographic and phonetic differences.
2.	^(b) ₍₄₎ ***	60	This name pair has sufficient orthographic and phonetic differences. Orthographically, the infixes (-sti- vs ^(b) ₍₄₎ -) and suffixes (-ggo vs - ^(b) ₍₄₎) provide some differentiation. Specifically, Rystiggo contains the dotted letter “i” within the infix whereas ^(b) ₍₄₎ *** does not

No.	Proposed name: Rystiggo Established name: rozanolixizumab- ^{(b) (4)} Dosage form: injection Strength(s): 280 mg/2 mL (140 mg/mL) Usual Dose: 420 mg (3 mL) or 560 mg (4 mL) once weekly	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
			<p>^{(b) (4)}. Also, Rystiggo contains consecutive downstroke letters “gg” in the suffix compared to the letter pair “^{(b) (4)}” in the same position of ^{(b) (4)}***.</p> <p>Phonetically, the offsets of the first (ris vs ^{(b) (4)}), and the second syllables (TIG vs ^{(b) (4)}), and third syllables (oh vs ^{(b) (4)} sound different. Additionally, ^{(b) (4)}*** contains an ^{(b) (4)}.</p> <p>Further, there is no direct overlap in dose (420 mg [3 mL]) or 560 mg [4 mL] vs. ^{(b) (4)} and a dose for Rystiggo would need to be specified on an order.</p> <p>Additionally, there is no direct overlap in strength (280 mg/2 mL vs ^{(b) (4)} mL), route of administration (subcutaneous vs ^{(b) (4)} or frequency of administration (once weekly vs ^{(b) (4)}), which may provide additional differentiation if included on an order.</p>
3.	^{(b) (4)} ***	59	<p>This name pair has sufficient orthographic and phonetic differences.</p> <p>Orthographically, the names begin with different letters, and the suffixes (-ggo vs ^{(b) (4)}) provide some differentiation. Specifically, Rystiggo contains consecutive downstroke letters “gg” in the suffix compared to ^{(b) (4)}, which has ^{(b) (4)}.</p> <p>Phonetically, the first syllables (ris vs ^{(b) (4)}) and second syllables (tig vs ^{(b) (4)}), and the</p>

No.	Proposed name: Rystiggo Established name: rozanolixizumab- ^(b) ₍₄₎ Dosage form: injection Strength(s): 280 mg/2 mL (140 mg/mL) Usual Dose: 420 mg (3 mL) or 560 mg (4 mL) once weekly	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
			onset of the third syllables (oh vs ^(b) ₍₄₎) sound different. Additionally, there is no direct overlap in strength (280 mg/2 mL or ^(b) ₍₄₎), route of administration (subcutaneous vs ^(b) ₍₄₎), dose (420 mg or 3 mL and ^(b) ₍₄₎ and frequency weekly vs ^(b) ₍₄₎), which may provide additional differentiation if included on an order.
4.	Respirol	58	This name pair has sufficient orthographic and phonetic differences.
5.	Crysvita	57	This name pair has sufficient orthographic and phonetic differences.

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

No.	Name	POCA Score (%)
N/A		

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.	^(b) ₍₄₎ ***	64	Proposed proprietary name for IND 132407 found unacceptable by DMEPA (OSE# 2020-39328431 dated 10/02/2020). The subject name of this review, Rystiggo***, is proposed.
2.	Aristogel	62	Brand discontinued with no generic equivalents available. ANDA 083380 withdrawn FR effective 12/07/2007.

No.	Name	POCA Score (%)	Failure preventions
3.	Crystodigin	62	Brand discontinued with no generic equivalents available. ANDA 084100 withdrawn FR effective 06/09/1993.
4.	Respigam	60	Name identified in RxNorm database. Product is deactivated and no generic equivalents are available.
5.	(b) (4)***	60	Proposed proprietary name withdrawn by the Applicant. A new name, (b) (4)***, was submitted and found conditionally acceptable in OSE Review # (b) (4)
6.	Crystacide	58	International product marketed in New Zealand, Portugal, Italy, and United Kingdom, and formerly marketed in Greece, Hong Kong, Ireland, Israel, Spain, Germany, Belgium.
7.	Resectisol	56	Brand discontinued with no generic equivalents available. NDA 016704 and NDA 016772 withdrawn FR effective 03/04/2022 and 01/09/2023, respectively.
8.	Restandol	56	International product marketed in Greece and United Kingdom, and formerly marketed in Ireland and Denmark.
9.	(b) (4)***	56	Proposed proprietary name for (b) (4) is active, and no names have been submitted.

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

No.	Name	POCA Score (%)
1.	(b) (4)***	61
2.	Bristagen	60
3.	Delstrigo	60
4.	Prostigmin	59
5.	Tri-Statin	58
6.	(b) (4)***	57
7.	Aristada	56
8.	Gris-Peg	56
9.	Prestalia	56

^h 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

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