

Our STN: BL 125706/0

BLA APPROVAL

December 18, 2024

Mesoblast, Inc. Attention: Susan T. Sukovich, RAC 1114 Sixth Avenue 4th Floor New York, NY 10036

Dear Susan Sukovich:

Please refer to your Biologics License Application (BLA) received January 31, 2020, under section 351(a) of the Public Health Service Act (PHS Act) for remestemcel-L-rknd.

LICENSING

We are issuing Department of Health and Human Services U.S. License No. 2140 to Mesoblast, Inc., New York, NY under the provisions of section 351(a) of the PHS Act controlling the manufacture and sale of biological products. The license authorizes you to introduce or deliver for introduction into interstate commerce, those products for which your company has demonstrated compliance with establishment and product standards.

Under this license, you are authorized to manufacture the product remestemcel-L-rknd, which is indicated for the treatment of steroid-refractory acute graft versus host disease (SR-aGvHD) in pediatric patients 2 months of age and older.

The review of this product was associated with the following National Clinical Trial (NCT) number: NCT02336230.

MANUFACTURING LOCATIONS

Under this license, you are approved to manufacture remestemcel-L-rknd at Lonza Bioscience Singapore Pte Ltd., located in Singapore. You may label your product with the proprietary name RYONCIL and market it in a target concentration of 6.68 X 10⁶ mesenchymal stromal cells (MSCs) per mL in 3.8 mL contained in a 6 mL cryovial.

DATING PERIOD

The dating period for remestemcel-L-rknd shall be 60 months from the date of manufacture when stored at ≤-135°C in liquid nitrogen vapor.

The date of manufacture shall be defined as the date of final fill of the formulated drug product in its final container. We have approved the stability protocol(s) in your license

application for the purpose of extending the expiration dating period of your drug substance and drug product under 21 CFR 601.12.

FDA LOT RELEASE

You are required to submit protocols showing results of all applicable release tests for future lots of remestemcel-L-rknd to the Center for Biologics Evaluation and Research (CBER). You may not distribute any lots of product until you receive a notification of release from the Director, CBER.

BIOLOGICAL PRODUCT DEVIATIONS

You must submit reports of biological product deviations under 21 CFR 600.14. You should identify and investigate all manufacturing deviations promptly, including those associated with processing, testing, packaging, labeling, storage, holding and distribution. If the deviation involves a distributed product, may affect the safety, purity, or potency of the product, and meets the other criteria in the regulation, you must submit a report on Form FDA 3486 to the Director, Office of Compliance and Biologics Quality, electronically through the eBPDR web application or at the address below. Links for the instructions on completing the electronic form (eBPDR) may be found on CBER's web site at https://www.fda.gov/vaccines-blood-biologics/report-problem-center-biologics-evaluation-research/biological-product-deviations:

Food and Drug Administration Center for Biologics Evaluation and Research Document Control Center 10903 New Hampshire Ave. WO71-G112 Silver Spring, MD 20993-0002

MANUFACTURING CHANGES

You must submit information to your BLA for our review and written approval under 21 CFR 601.12 for any changes in, including but not limited to, the manufacturing, testing, packaging or labeling of remestemcel-L-rknd, or in the manufacturing facilities.

LABELING

We hereby approve the draft content of labeling including Package Insert, submitted under amendment 123, dated December 18, 2024 and the draft package and container labels submitted under amendment 115, dated December 9, 2024.

CONTENT OF LABELING

As soon as possible, but no later than 14 days from the date of this letter, please submit the final content of labeling (21 CFR 601.14) in Structured Product Labeling (SPL) format via 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 Package Insert, submitted on December 18, 2024. Information on submitting SPL files using eLIST may be found in the guidance for industry SPL Standard for Content of Labeling Technical Qs and As at http://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM072392.pdf.

The SPL will be accessible via publicly available labeling repositories.

PACKAGE AND CONTAINER LABELS

Please electronically submit final printed package and container labels identical to the package and container labels submitted on December 9, 2024, according to the guidance for industry *Providing Regulatory Submissions in Electronic Format* — *Certain Human Pharmaceutical Product Applications and Related Submissions Using the eCTD Specifications* at https://www.fda.gov/downloads/drugs/guidancecompliancergulatoryinformation/guidances/ucm333969.pdf.

All final labeling should be submitted as Product Correspondence to this BLA, STN BL 125706 at the time of use and include implementation information on Form FDA 356h.

ADVERTISING AND PROMOTIONAL LABELING

You may submit two draft copies of the proposed introductory advertising and promotional labeling with Form FDA 2253 to the Advertising and Promotional Labeling Branch at the following address:

Food and Drug Administration Center for Biologics Evaluation and Research Document Control Center 10903 New Hampshire Ave. WO71-G112 Silver Spring, MD 20993-0002

You must submit copies of your final advertising and promotional labeling at the time of initial dissemination or publication, accompanied by Form FDA 2253 (21 CFR 601.12(f)(4)).

All promotional claims must be consistent with and not contrary to approved labeling. You should not make a comparative promotional claim or claim of superiority over other

products unless you have substantial evidence or substantial clinical experience to support such claims (21 CFR 202.1(e)(6)).

ADVERSE EVENT REPORTING

You must submit adverse experience reports in accordance with the adverse experience reporting requirements for licensed biological products (21 CFR 600.80) and you must submit distribution reports as described in 21 CFR 600.81. In addition to the reporting requirements in 21 CFR 600.80, you must submit adverse experience reports for ectopic tissue formation and anti-donor antibody events as 15-day expedited reports to the FDA Adverse Event Reporting System (FAERS). Ectopic tissue formation and anti-donor antibody events reports must be submitted as 15-day expedited reports for three years following the date of product licensure. For information on adverse experience reporting, please refer to the guidance for industry *Providing Submissions in* Electronic Format —Postmarketing Safety Reports at https://www.fda.gov/regulatoryinformation/search-fda-guidance-documents/providing-submissions-electronic-formatpostmarketing-safety-reports and FDA's Adverse Event reporting System website at https://www.fda.gov/drugs/guestions-and-answers-fdas-adverse-event-reportingsystem-faers/fda-adverse-event-reporting-system-faers-electronic-submissions. For information on distribution reporting, please refer to the guidance for industry *Electronic* Submission of Lot Distribution Reports at https://www.fda.gov/vaccines-bloodbiologics/lot-release/lot-distribution-database-ldd.

(b) (4)	



PEDIATRIC REQUIREMENTS

Under the Pediatric Research Equity Act (PREA) (21 U.S.C. 355c), all applications for new active ingredients, new indications, new dosage forms, new dosing regimens, or new routes of administration are required to contain an assessment of the safety and effectiveness of the product for the claimed indication in pediatric patients unless this requirement is waived, deferred, or inapplicable.

Because the biological product for this indication has an orphan drug designation, you are exempt from this requirement.

POSTMARKETING REQUIREMENTS UNDER SECTION 505(o)

Section 505(o) of the Federal Food, Drug, and Cosmetic Act (FDCA) authorizes FDA to require holders of approved drug and biological product applications to conduct postmarketing studies and clinical trials for certain purposes, if FDA makes certain findings required by the statute (section 505(o)(3)(A), 21 U.S.C. 355(o)(3)(A)).

We have determined that an analysis of spontaneous postmarketing adverse events reported under section 505(k)(1) of the FDCA will not be sufficient to identify an unexpected serious risk of exposure to unknown extractables and leachables which may form potentially toxic compounds.

Furthermore, the pharmacovigilance system that FDA is required to maintain under section 505(k)(3) of the FDCA is not sufficient to assess this serious risk.

Therefore, based on appropriate scientific data, we have determined that you will be required to conduct the study described below:

1. Mesoblast will complete the assessment of simulated leachables safety study for remestercel-L through its manufacturing process and storage. This study must include an assessment of total leachables presented in DP that accumulate

throughout the manufacturing process and storage over the shelf-life. Such assessment should be performed in a real-time study using maximal hold times and temperatures at respective steps.

A toxicological risk assessment of the overall leachables in the final drug product and final study report will be provided as follows.

We acknowledge the timetable you submitted on November 15, 2024, which states that you will conduct this study according to the following schedule:

Study Completion Date: August 31, 2030 Final Report Submission: October 31, 2030

Please submit final study reports to the BLA. If the information in the final study report supports a change in the label, the final study report must be submitted as a supplement to this BLA, STN BL 125706. For administrative purposes, all submissions related to this postmarketing study required under section 505(o) must be submitted to this BLA and be clearly designated as:

- Required Postmarketing Correspondence under Section 505(o)
- Required Postmarketing Final Report under Section 505(o)
- Supplement contains Required Postmarketing Final Report under Section 505(o)

Section 505(o)(3)(E)(ii) of the FDCA requires you to report periodically on the status of any study or clinical trial required under this section. This section also requires you to periodically report to FDA on the status of any study or clinical trial otherwise undertaken to investigate a safety issue. In addition, section 506B of the FDCA and 21 CFR 601.70 require you to report annually on the status of any postmarketing commitments or required studies or clinical trials.

You must describe the status in an annual report on postmarketing studies for this product. Label your annual report as an **Annual Status Report of Postmarketing Requirements/Commitments** and submit it to the FDA each year within 60 calendar days of the anniversary date of this letter until all Requirements and Commitments subject to the reporting requirements of section 506B of the FDCA are fulfilled or released. The status report for each study should include:

- the sequential number for each study as shown in this letter;
- information to identify and describe the postmarketing requirement;
- the original milestone schedule for the requirement;
- the revised milestone schedule for the requirement, if appropriate;
- the current status of the requirement (i.e., pending, ongoing, delayed, terminated, or submitted); and,
- an explanation of the status for the study or clinical trial. The explanation should include how the study is progressing in reference to the original projected

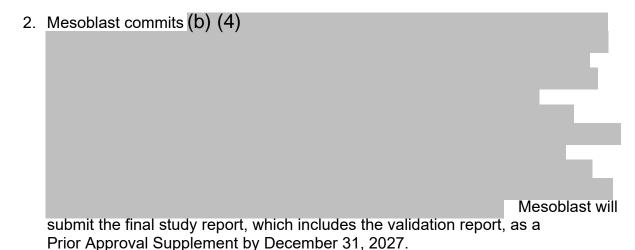
schedule, including, the patient accrual rate (i.e., number enrolled to date and the total planned enrollment).

As described in 21 CFR 601.70(e), we may publicly disclose information regarding these postmarketing studies on our website at http://www.fda.gov/Drugs/Guidance- ComplianceRegulatoryInformation/Post-marketingPhaseIVCommitments/default.htm.

We will consider the submission of your annual report under section 506B of the FDCA and 21 CFR 601.70 to satisfy the periodic reporting requirement under section 505(o)(3)(E)(ii) provided that you include the elements listed in section 505(o) and 21 CFR 601.70. We remind you that to comply with section 505(o), your annual report must also include a report on the status of any study or clinical trial otherwise undertaken to investigate a safety issue. Failure to periodically report on the status of studies or clinical trials required under section 505(o) may be a violation of FDCA section 505(o)(3)(E)(ii) and could result in regulatory action.

POSTMARKETING COMMITMENTS NOT SUBJECT TO THE REPORTING REQUIREMENTS UNDER SECTION 506B

We acknowledge your written commitments as described in your letter of November 15, 2024, amendment 110, as outlined below:



(b) (4) Assay(s) Protocol Submission: December 31, 2025 Final Study Report Submission: December 31, 2027

3. Mesoblast commits to conduct a (b) (4) assay suitability study to determine the ability of the (b) (4) assays to detect (b) (4) product lots. To conduct this study, Mesoblast will (b) (4)

. Mesoblast will submit an interim study report with the current (b) (4) assays by December 31, 2026, and a final study report,

which includes the new (b) (4) assay(s) developed to address PMC #2, by December 31, 2027.

Interim Study Report Submission: December 31, 2026 Final Study Report Submission: December 31, 2027

4. Mesoblast commits to conduct an in-use stability study to evaluate relevant critical quality attributes of RYNOCIL following simulated final drug product formulation at the clinic. Mesoblast will submit an interim study report with the current (b) (4) assays by February 28, 2026, and a final study report, which includes the new (b) (4) assay(s) developed to address PMC #2, by December 31, 2027.

Interim Study Report Submission: February 28, 2026 Final Study Report Submission: December 31, 2027

We request that you submit information concerning chemistry, manufacturing, and controls postmarketing commitments and final reports to your BLA, STN BL 125706. Please refer to the sequential number for each commitment.

Please use the following designators to prominently label all submissions, including supplements, relating to these postmarketing study commitments as appropriate:

- Postmarketing Commitment Status Update
- Postmarketing Commitment Final Study Report
- Supplement contains Postmarketing Commitment Final Study Report

For each postmarketing commitment not subject to the reporting requirements of 21 CFR 601.70, you may report the status to FDA as a **Postmarketing Commitment – Status Update**. The status report for each commitment should include:

- the sequential number for each study as shown in this letter;
- the submission number associated with this letter;
- describe what has been accomplished to fulfill the non-section 506B PMC; and,
- summarize any data collected or issues with fulfilling the non-section 506B PMC.

When you have fulfilled your commitment, submit your final report as **Postmarketing**Commitment – Final Study Report or Supplement contains Postmarketing

Commitment – Final Study Report.

POST APPROVAL FEEDBACK MEETING

New biological products qualify for a post approval feedback meeting. Such meetings are used to discuss the quality of the application and to evaluate the communication process during drug development and marketing application review. The purpose is to learn from successful aspects of the review process and to identify areas that could

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benefit from improvement. If you would like to have such a meeting with us, please contact the Regulatory Project Manager for this application.

Sincerely,

Melissa J. Mendoza, JD Director Office of Compliance and Biologics Quality Center for Biologics Evaluation and Research Lola Fashoyin-Aje, MD, MPH Director Office of Clinical Evaluation Office of Therapeutic Products Center for Biologics Evaluation and Research