

NDA 215192

NDA APPROVAL

Akebia Therapeutics, Inc. Attention: Debleena Sengupta, PhD, RAC Senior Director, Regulatory Affairs 245 First Street, Suite 1400 Cambridge, MA 02142

Dear Dr. Sengupta:

Please refer to your new drug application (NDA) dated March 28, 2021, received March 29, 2021, and your amendments, submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act (FDCA) for Vafseo (vadadustat) tablets.

We acknowledge receipt of your amendment dated September 27, 2023, which constituted a complete response to our March 29, 2022, action letter.

This NDA provides for the use of Vafseo (vadadustat) tablets for the treatment of anemia due to chronic kidney disease (CKD) in adults who have been receiving dialysis for at least three months.

APPROVAL & LABELING

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

WAIVER OF 1/2 PAGE LENGTH REQUIREMENT FOR HIGHLIGHTS

We are waiving the requirements of 21 CFR 201.57(d)(8) regarding the length of Highlights of Prescribing Information. This waiver applies to all future supplements containing revised labeling unless we notify you otherwise.

CONTENT OF LABELING

As soon as possible, but no later than 14 days from the date of this letter, submit the content of labeling [21 CFR 314.50(l)] in structured product labeling (SPL) format using the FDA automated drug registration and listing system (eLIST), as described at FDA.gov.¹ Content of labeling must be identical to the enclosed labeling (text for the Prescribing Information and Medication Guide) as well as annual reportable changes

Reference ID: 5354686

¹ http://www.fda.gov/ForIndustry/DataStandards/StructuredProductLabeling/default.htm

not included in the enclosed labeling. 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.*²

The SPL will be accessible via publicly available labeling repositories.

CARTON AND CONTAINER LABELING

Submit final printed carton and container labeling that are identical to the enclosed carton and container labeling as soon as they are available, but no more than 30 days after they are printed. Please submit these labeling electronically according to the guidance for industry *SPL Standard for Content of Labeling Technical Qs & As.* For administrative purposes, designate this submission "**Final Printed Carton and Container Labeling for approved NDA 215192**." Approval of this submission by FDA is not required before the labeling is used.

DATING PERIOD

Based on the stability data submitted to date, the expiry dating period for Vafseo (vadadustat) tablets shall be 36 months from the date of manufacture when stored at 20°C to 25°C.

ADVISORY COMMITTEE

Your application for Vafseo was not referred to an FDA advisory committee because the application did not raise efficacy, safety, or public health questions requiring advice from external experts.

REQUIRED PEDIATRIC ASSESSMENTS

Under the Pediatric Research Equity Act (PREA) (21 U.S.C. 355c), all applications for new active ingredients (which includes new salts and new fixed combinations), 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.

We are waiving the pediatric study requirement for ages birth to <3 months because necessary studies are impossible or highly impracticable. This is because patients diagnosed with chronic kidney disease require at least 3 months of follow-up to establish the diagnosis.

² We update guidances periodically. For the most recent version of a guidance, check the FDA Guidance Documents Database https://www.fda.gov/RegulatoryInformation/Guidances/default.htm.

We are deferring submission of your pediatric study until April 2031, because this product is ready for approval for use in adults and the pediatric study has not been completed.

Your deferred pediatric study required under section 505B(a) of the FDCA is a required postmarketing study. The status of this postmarketing study must be reported annually according to 21 CFR 314.81 and section 505B(a)(4)(C) of the FDCA. This required study is listed below.

4613-1 Conduct a trial to evaluate the safety, tolerability, pharmacokinetics, and pharmacodynamics of Vafseo for the treatment of anemia associated with chronic kidney disease in children and adolescents aged 3 months to under 17 years requiring dialysis. Submit datasets at the time of the final clinical study report submission.

Draft Protocol Submission: 10/2024 Final Protocol Submission: 04/2025 Study Completion: 10/2030 Final Report Submission: 04/2031

POSTMARKETING REQUIREMENTS UNDER 505(o)

Section 505(o)(3) of the 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.

We have determined that an analysis of spontaneous postmarketing adverse events reported under subsection 505(k)(1) of the FDCA will not be sufficient to assess a known serious risk of vascular access thrombosis and gastric erosions; a signal of a serious risk of malignancy; and to identify an unexpected serious risk of hospitalization for heart failure, pregnancy complications and adverse effects on the developing fetus and neonate, related to the use of Vafseo in adults with dialysis-dependent chronic kidney disease.

Furthermore, the active postmarket risk identification and analysis system as available under section 505(k)(3) of the FDCA will not be sufficient to assess these serious risks.

Therefore, based on appropriate scientific data, FDA has determined that you are required to conduct the following studies:

4613-2 Conduct an observational study to characterize the long-term safety (up to 5 years follow up) of Vafseo in adults with dialysis-dependent chronic kidney disease treated with the approved dosing regimen of Vafseo in the United States. Specific safety outcomes of interest include: thrombotic vascular events including vascular access thrombosis; hospitalization for

heart failure; and serious gastrointestinal bleeds. The study population should include adults previously treated with erythropoiesis-stimulating agents (ESAs) and adults naïve to ESAs. The effect of baseline and maximum achieved hemoglobin on the specified safety outcomes should be evaluated.

The timetable you submitted on March 22, 2024, states that you will conduct this study according to the following schedule:

Draft Protocol Submission: 11/2024 Final Protocol Submission: 05/2025 Interim Report: 09/2029 Study Completion: 09/2032 Final Report Submission: 09/2033

Submit an integrated safety dataset and patient level data including Vafseo dosing, treatment-emergent serious adverse events (SAEs), adverse events leading to treatment discontinuation, and outcomes of SAEs with your final report.

4613-3 Conduct an observational study (up to 5 years follow up) to assess the risk for malignancy (hematological and non-hematological) in adults with dialysis-dependent chronic kidney disease with anemia treated with Vafseo versus an erythropoiesis-stimulating agent comparator arm. The study should include an assessment of primary malignancies among adults with no cancer history (including assessment by type and location), and the impact of Vafseo on progression-free survival, and overall survival in adults with prior cancers.

The timetable you submitted on March 22, 2024, states that you will conduct this study according to the following schedule:

Draft Protocol Submission: 01/2025 Final Protocol Submission: 07/2025 Study Completion: 02/2032 Final Report Submission: 02/2033

4613-4 Conduct a worldwide descriptive study to collect prospective and retrospective data on women exposed to Vafseo during pregnancy to assess the risk of pregnancy and maternal complications, adverse effects on the developing fetus and neonate, and adverse effects on the infant. Assess infant outcomes through at least the first year of life. The minimum number of patients will be specified in the protocol.

The timetable you submitted on March 22, 2024, states that you will conduct this study according to the following schedule:

Draft Protocol Submission: 01/2025 Final Protocol Submission: 07/2025 Interim Report: 03/2029 Study Completion: 01/2031 Final Report Submission: 01/2032

FDA considers the term *final* to mean that the applicant has submitted a protocol, the FDA review team has sent comments to the applicant, and the protocol has been revised as needed to meet the goal of the study or clinical trial.³

Submit clinical protocols to your IND 102465 with a cross-reference letter to this NDA. Submit nonclinical and chemistry, manufacturing, and controls protocols and all final reports to your NDA. Prominently identify the submission with the following wording in bold capital letters at the top of the first page of the submission, as appropriate: Required Postmarketing Protocol Under 505(o), Required Postmarketing Final Report Under 505(o), Required Postmarketing Correspondence Under 505(o).

Submission of the protocols for required postmarketing observational studies to your IND is for purposes of administrative tracking only. These studies do not constitute clinical investigations pursuant to 21 CFR 312.3(b) and therefore are not subject to the IND requirements under 21 CFR part 312.

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. Section 506B(a)(1) of the FDCA, as well as 21 CFR 314.81(b)(2)(vii) requires you to report annually on the status of any postmarketing commitments or required studies or clinical trials.

FDA will consider the submission of your annual report under section 506B(a)(1) and 21 CFR 314.81(b)(2)(vii) to satisfy the periodic reporting requirement under section 505(o)(3)(E)(ii) provided that you include the elements listed in 505(o) and 21 CFR 314.81(b)(2)(vii). We remind you that to comply with 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 submit an annual report for studies or clinical trials required under 505(o) on the date required will be considered a violation of FDCA section 505(o)(3)(E)(ii) and could result in enforcement action.

³ See the guidance for Industry *Postmarketing Studies and Clinical Trials—Implementation of Section 505(o)(3) of the Federal Food, Drug, and Cosmetic Act (October 2019).* https://www.fda.gov/RegulatoryInformation/Guidances/default.htm.

PROMOTIONAL MATERIALS

You may request advisory comments on proposed introductory advertising and promotional labeling. For information about submitting promotional materials, see the final guidance for industry *Providing Regulatory Submissions in Electronic and Non-Electronic Format—Promotional Labeling and Advertising Materials for Human Prescription Drugs.*⁴

As required under 21 CFR 314.81(b)(3)(i), you must submit final promotional materials, and the Prescribing Information, at the time of initial dissemination or publication, accompanied by a Form FDA 2253. Form FDA 2253 is available at FDA.gov.⁵ Information and Instructions for completing the form can be found at FDA.gov.⁶

REPORTING REQUIREMENTS

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

REQUESTED ENHANCED PHARMACOVIGILANCE (EPV)

We request that you provide a narrative summary including analysis of all serious domestic and foreign cases of hepatic injury reported with the use of Vafseo as part of your required periodic safety reports [e.g., periodic adverse drug experience report (PADER) required under 21 CFR 314.80(c)(2)], quarterly during the first 3 years post-approval and annually thereafter, through the 5th year following the initial U.S. approval date.

Your analyses should include interval and cumulative data relative to the date of approval of Vafseo. Your analyses should provide an assessment of causality, with documentation of indication, temporal association, duration of therapy, associated signs and symptoms, confounders, underlying risk factors, treatment given for the event, outcome, and dechallenge/rechallenge.

POST APPROVAL FEEDBACK MEETING

New molecular entities 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 benefit from improvement. If you would like to have such a meeting with us, call the Regulatory Project Manager for this application.

⁴ For the most recent version of a guidance, check the FDA guidance web page at https://www.fda.gov/media/128163/download.

⁵ http://www.fda.gov/downloads/AboutFDA/ReportsManualsForms/Forms/UCM083570.pdf

http://www.fda.gov/downloads/AboutFDA/ReportsManualsForms/Forms/UCM375154.pdf

COMPENDIAL STANDARDS

A drug with a name recognized in the official United States Pharmacopeia or official National Formulary (USP-NF) generally must comply with the compendial standards for strength, quality, and purity, unless the difference in strength, quality, or purity is plainly stated on its label (see FD&C Act § 501(b), 21 USC 351(b)). FDA typically cannot share application-specific information contained in submitted regulatory filings with third parties, which includes USP-NF. To help ensure that a drug continues to comply with compendial standards, application holders may work directly with USP-NF to revise official USP monographs. More information on the USP-NF is available on USP's website⁷.

If you have any questions, contact Carleveva Thompson, Regulatory Project Manager, at 301-796-1403 or Carleveva. Thompson@fda.hhs.gov.

Sincerely,

{See appended electronic signature page}

Hylton V. Joffe, MD, MMSc Director Office of Cardiology, Hematology, Endocrinology, and Nephrology Center for Drug Evaluation and Research

ENCLOSURES:

- Content of Labeling
 - Prescribing Information
 - Medication Guide
- Carton and Container Labeling

⁷ https://www.uspnf.com/

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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