## Contains Nonbinding Recommendations

Draft – Not for Implementation

## Draft Guidance on Repotrectinib May 2025

This draft guidance, when finalized, will represent the current thinking of the Food and Drug Administration (FDA, or the Agency) on this topic. It does not establish any rights for any person and is not binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the applicable statutes and regulations. To discuss an alternative approach, contact the Office of Generic Drugs.

In general, FDA's guidance documents do not establish legally enforceable responsibilities. Instead, guidances describe the Agency's current thinking on a topic and should be viewed only as recommendations, unless specific regulatory or statutory requirements are cited. The use of the word *should* in Agency guidances means that something is suggested or recommended, but not required.

**Active Ingredient:** Repotrectinib

**Dosage Form:** Capsule

Route: Oral

**Strengths:** 40 mg, 160 mg

**Recommended Studies:** Three in vivo bioequivalence studies with pharmacokinetic

endpoints

1. Type of study: Fasting

Design: Single-dose, two-treatment, two-period crossover in vivo

Strength: 160 mg

Subjects: Healthy males and healthy females not of reproductive potential Additional comments: Exclude subjects with abnormal liver function tests. Males with female partners of reproductive potential should use effective contraception during the study and for four months after the last dose. Subjects should be evaluated prior to discharge for cognitive impairment such as somnolence and dizziness and instructed not to drive or operate machinery until their cognitive function returns to baseline level. Ensure an adequate washout period between treatments in the crossover study due to the long elimination half-life of repotrectinib. Alternatively, a parallel study design may be considered. AUC<sub>(0-72h)</sub> may be used in place of AUC<sub>(0-t)</sub> for comparison of the extent of absorption.

2. Type of study: Fed

Design: Single-dose, two-treatment, two-period crossover in vivo

Strength: 160 mg

Subjects: Healthy males and healthy females not of reproductive potential

Additional comments: See comments above. In vivo testing of the 160 mg strength under the fed conditions may be waived based on (i) an acceptable bioequivalence study under fasting conditions, (ii) acceptable in vitro dissolution testing between the test product and reference listed drug (RLD), and (iii) the same product design as the RLD, including the critical excipient(s) (e.g., excipients functioning as a solubilizing agent) that may pose bioinequivalence risk under fed conditions. Additionally, the quantity of the critical excipient(s) should not differ by more than 10% (w/w) from the RLD.

3. Type of study: Fasting

Design: Single-dose, two-treatment, two-period crossover in vivo

Strength: 40 mg

Subjects: Healthy males and healthy females not of reproductive potential

Additional comments: See comments above. In vivo testing of the 40 mg strength may be waived based on (i) an acceptable bioequivalence study(ies) on the 160 mg strength, (ii) acceptable in vitro dissolution testing of both strengths, and (iii) formulation qualitatively similar and the amount of critical excipient(s) directly proportional between the two strengths (i.e., critical excipient-to-active pharmaceutical ingredient weight ratios

are the same).

Analyte to measure: Repotrectinib in plasma

Bioequivalence based on (90% CI): Repotrectinib

Waiver request of in vivo testing: See comments above.

**Dissolution test method and sampling times:** The dissolution information for this drug product can be found in the FDA's Dissolution Methods database, <a href="http://www.accessdata.fda.gov/scripts/cder/dissolution/">http://www.accessdata.fda.gov/scripts/cder/dissolution/</a>. Conduct comparative dissolution testing on 12 dosage units for each of both strengths of the test product and RLD. Specifications will be determined upon review of the abbreviated new drug application.

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<sup>&</sup>lt;sup>1</sup> If the RLD is not available, refer to the most recent version of the FDA guidance for industry on *Referencing Approved Drug Products in ANDA Submissions*.