Contains Nonbinding Recommendations

Draft – Not for Implementation

Draft Guidance on Selpercatinib

December 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This draft guidance, when finalized, will represent the current thinking of the Food and Drug Administration (FDA, or the Agency) on this topic.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: Selpercatinib

Dosage Form: Tablet

Route: Oral

Strengths: 40 mg, 80 mg, 120 mg, 160 mg

Recommended Study: One in vivo bioequivalence study 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 non-pregnant, non-lactating females
   Additional comments:
   - Females of reproductive potential should use non-hormonal contraceptives during the study and continue to use effective contraceptives for one week after the last dose. Male subjects with female partners of reproductive potential should use effective contraception during the study and for one week after the last dose.
   - Ensure an adequate washout period between treatments in the crossover study due to selpercatinib's long half-life. Alternatively, a parallel study design may be considered.

Analyte to measure: Selpercatinib in plasma

Bioequivalence based on (90% CI): Selpercatinib

Waiver request of in vivo testing: 40 mg, 80 mg, 120 mg strengths based on (i) an acceptable bioequivalence study on the 160 mg strength, (ii) acceptable in vitro dissolution testing of all strengths, and (iii) proportional similarity of the formulations across all strengths

Dissolution test method and sampling times: The dissolution information for this drug product can be found in the FDA's Dissolution Methods database, http://www.accessdata.fda.gov/scripts/cder/dissolution/. Conduct comparative dissolution testing on 12 dosage units each of all strengths of the test product and reference listed drug (RLD).[1] Specifications will be determined upon review of the abbreviated new drug application.

Document History: Recommended December 2025

Unique Agency Identifier: PSG_218160

[1] If the RLD is not available, refer to the most recent version of the guidance for industry *Referencing Approved Drug Products in ANDA Submissions*.