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Draft Guidance on Voxelotor

August 2023

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Active Ingredient:	Voxelotor
Dosage Form:	Tablet
Route:	Oral
Strengths:	300 mg, 500 mg
Recommended Studies:	Two in vivo bioequivalence studies with pharmacokinetic endpoints

1. Type of study: Fasting
Design: Single-dose, two-treatment, two-period crossover in vivo
Strength: 500 mg
Subjects: Healthy males and non-pregnant, non-lactating females
Additional comments: Ensure an adequate washout period between treatments in the crossover study due to the long elimination half-life of voxelotor. Alternatively, a parallel study design may be considered.
2. Type of study: Fed
Design: Single-dose, two-treatment, two-period crossover in vivo
Strength: 500 mg
Subjects: Healthy males and non-pregnant, non-lactating females
Additional comments: See comments above.

Analyte to measure: Voxelotor in whole blood

Bioequivalence based on (90% CI): Voxelotor

Waiver request of in vivo testing: 300 mg strength based on (i) acceptable bioequivalence studies on the 500 mg strength, (ii) acceptable dissolution testing between two strengths, and (iii) proportional similarity in the formulations between two 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 both strengths of the test and reference products. Specifications will be determined upon review of the abbreviated new drug application.

Document History: Recommended May 2021; Revised August 2023

Unique Agency Identifier: PSG_213137