

Contains Nonbinding Recommendations
Draft – Not for Implementation
Draft Guidance on Panobinostat Lactate
October 2024

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Active Ingredient:	Panobinostat lactate
Dosage Form:	Capsule
Route:	Oral
Strengths:	EQ 10 mg Base, EQ 15 mg Base, EQ 20 mg Base
Recommended Study:	One in vivo bioequivalence study with pharmacokinetic endpoints

Study design: Single-dose, two-treatment, two-period crossover in vivo

Strength: EQ 20 mg Base

Subjects: Patients with multiple myeloma on a well-established dosing regimen of panobinostat (once every other day for 3 doses per week (Mondays, Wednesdays, and Fridays) in Weeks 1 and 2 of each 21-day cycle) as well as bortezomib and dexamethasone

Additional comments: For the purpose of a bioequivalence study, patients should be administered with the drug product under similar food conditions during both periods. To avoid pre-dose plasma concentrations, full pharmacokinetic profiles of bioequivalence study for the test product and reference listed drug (RLD) are recommended from all patients dosed on Day 1 (Monday) of each therapeutic cycle. The pharmacokinetics of panobinostat should be characterized during the sampling period of 48 hrs. Submission of an investigational new drug application is required prior to the conduct of a bioequivalence study for a cytotoxic drug of panobinostat pursuant to 21 CFR § 320.31.

Analyte to measure: Panobinostat in plasma

Bioequivalence based on (90% CI): Panobinostat

Waiver request of in vivo testing: EQ 10 mg Base and EQ 15 mg Base strengths based on (i) an acceptable bioequivalence study on the EQ 20 mg Base 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 for each of all strengths of the test product and RLD.¹ Specifications will be determined upon review of the abbreviated new drug application.

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¹ 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*.