

4 December 2023 EMA/CHMP/172895/2023 Committee for Medicinal Products for Human Use (CHMP)

Azacitidine powder for suspension for injection 25 mg/ml product-specific bioequivalence guidance Draft

Draft Agreed by Methodology Working Party (MWP)	17 November 2023
Adopted by CHMP for release for consultation	4 December 2023
Start of public consultation	15 January 2024
End of consultation (deadline for comments)	30 April 2024

Comments should be provided using this <u>EUSurvey form</u>. For any technical issues, please contact the <u>EUSurvey Support</u>.

Keywords

Bioequivalence, generics, azacitidine

 Official address
 Domenico Scarlattilaan 6 • 1083 HS Amsterdam • The Netherlands

 Address for visits and deliveries
 Refer to www.ema.europa.eu/how-to-find-us

 Send us a question
 Go to www.ema.europa.eu/contact
 Telephone +31 (0)88 781 6000



An agency of the European Union

Azacitidine powder for suspension for injection 25 mg/ml product-specific bioequivalence guidance

- 3
- 4 <u>Disclaimer</u>:

5 This guidance should not be understood as being legally enforceable and is without prejudice to the need to ensure that the data submitted in support of a

- 6 marketing authorisation application complies with the appropriate scientific, regulatory and legal requirements.
- 7 Requirements for bioequivalence demonstration (MWP)*

Bioequivalence study design	Single dose: Patients, initial therapeutic dose of 75 mg/m ² of body surface area.	
	Background: In principle, suspensions for injection are not waived from the in vivo demonstration of bioequivalence. However, in this case a waiver based on in vitro similarity might be applicable if certain conditions are met, taking into account that the suspension becomes a solution at body temperature (see below).	
	cross-over study where test and reference are administered on two consecutive days during a cycle of treatment	
	Other critical aspects: azacitidine should be injected subcutaneously into the upper arm, thigh, or abdomen. The study can be conducted in one site of injection only.	
Analyte	🛛 parent 🗌 metabolite 🗌 both	
	🛛 plasma/serum 🗌 blood 🗌 urine	

	Enantioselective analytical method: 🗌 yes 🛛 no	
Bioequivalence assessment	Main pharmacokinetic variables: C _{max} and AUC _{0-t} .	
	90% confidence interval: 80.00-125.00%	
Waiver of bioequivalence study	 A waiver of in vivo bioequivalence study may be granted, if the test product has: The same qualitative and quantitative composition in active substance as the reference product. The same qualitative and very similar quantitative composition in excipients as the reference product. Similar crystal morphology of the drug substance immediately prior to use as documented by microphotographs (e.g. optical and scanning electron microscopy). Equivalent particle size distribution as demonstrated by showing average equivalence for D₁₀, D₅₀, D₉₀ and span within an acceptance range of 15% for the ratio of geometric means between test and reference products (i.e., 85.00-117.64%). Equivalent physicochemical properties: viscosity, osmolality and pH. Equivalent "time to clear solution" after reconstitution between test and reference products, where the product after reconstitution is maintained at e.g. 34, 35, 36 and 37°C to determine the time required to obtain a clear solution at each of those temperatures. At least 3 batches of the test and reference product should be included in the comparability studies. More batches may be needed in case of higher variability of the reference product results. 	

* As intra-subject variability of the reference product has not been reviewed to elaborate this product-specific bioequivalence guideline, it is not possible to recommend at this stage the use of a replicate design to demonstrate high intra-subject variability and widen the acceptance range of C_{max} , $C_{r,ss}$ and $_{partial}$ AUC. If high intra-individual variability (CVi_{ntra} > 30%) is expected, the applicants might follow respective guideline recommendations.