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Bosutinib film-coated tablets 100, 400 and 500 mg product-specific bioequivalence guidance

Draft agreed by Pharmacokinetics Working Party (PKWP) / Methodology Working Party (MWP)	30 January 2023
Adopted by CHMP for release for consultation	30 March 2023
Start of public consultation	22 June 2023
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Agreed by Methodology Working Party (MWP)	9 October 2023
Adopted by CHMP	30 October 2023
Date for coming into effect	1 June 2024

Keywords	Bioequivalence, generics, bosutinib
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Disclaimer:

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 marketing authorisation application complies with the appropriate scientific, regulatory and legal requirements.

Requirements for bioequivalence demonstration (PKWP)*

BCS Classification**	BCS Class: I III Neither of the two Background: Bosutinib is considered a low solubility compound with limited absorption.
Bioequivalence study design in case a BCS biowaiver is not feasible or applied	single dose cross-over
	healthy volunteers
	☐ fasting ☐ fed ☐ both ☐ either fasting or fed
	Strength: 400 mg
	Background: Highest strength generally recommended to be used for a drug with linear pharmacokinetics in the therapeutic range and low solubility. However, there may be safety/tolerability issues with the highest strength (500 mg) if given to healthy volunteers. For this reason, it is recommended to use a lower strength (400 mg).

	Number of studies: one single dose study
	Other design aspects: N/A
Analyte	□ parent □ metabolite □ both
	□ plasma/serum □ blood □ urine
	Enantioselective analytical method: \square yes \boxtimes no
Bioequivalence assessment	Main pharmacokinetic variables: AUC _{0-72h} and C _{max}
	90% confidence interval: 80.00-125.00%

^{*} 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} . If high intra-individual variability ($CV_{intra} > 30\%$) is expected, the applicants might follow respective guideline recommendations.

^{**} This tentative BCS classification of the drug substance serves to define whether in vivo studies seem to be mandatory (BCS class II and IV) or, on the contrary (BCS Class I and III), the Applicant may choose between two options: in vivo approach or in vitro approach based on a BCS biowaiver. In this latter case, the BCS classification of the drug substance should be confirmed by the Applicant at the time of submission based on available data (solubility experiments, literature, etc.). However, a BCS-based biowaiver might not be feasible due to product specific characteristics despite the drug substance being BCS class I or III (e.g. in vitro dissolution being less than 85% within 15 min (BCS class III) or 30 min (BCS class I) either for test or reference, or unacceptable differences in the excipient composition).