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Sunitinib hard capsules 12.5, 25, 37.5 and 50 mg product-specific bioequivalence guidance*

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Adoption by CHMP for release for consultation	21 November 2013
Start of public consultation	3 December 2013
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^{*}This guideline was previously published as part of a "compilation of individual product-specific guidance on demonstration of bioequivalence Rev.3 EMA/CHMP/736403/2014"

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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 Neither of the two Background: sunitinib malate may be considered a high solubility compound with limited absorption.
Bioequivalence study design in case a BCS biowaiver is not feasible or applied	single dose cross-over healthy volunteers ightharpoonup fed igher fasting or fed Strength: 50 mg Background: highest strength recommended. However, it is also possible to use the lower strengths for a drug with linear pharmacokinetics and high solubility.

	Number of studies: one single dose study
Analyte	□ parent □ metabolite □ both
	□ plasma/serum □ blood □ urine
	Enantioselective analytical method: ☐ yes ☒ 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 seems 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).