

- 1 13 December 2018
- 2 EMA/CHMP/790333/2018
- 3 Committee for Medicinal Products for Human Use (CHMP)
- Cabozantinib tablet 20 mg, 40 mg and 60 mg, capsule 20
- <sub>5</sub> mg and 80 mg product-specific bioequivalence guidance
- 6 Draft

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Draft Agreed by Pharmacokinetics Working Party (PKWP)	October 2018
Adopted by CHMP for release for consultation	13 December 2018
Start of public consultation	21 December
End of consultation (deadline for comments)	30 June 2019

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Comments should be provided using this <u>template</u>. The completed comments form should be sent to PKWP@ema.europa.eu

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Keywords	Bioequivalence, generics, cabozantinib
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- Cabozantinib tablet 20 mg, 40 mg and 60 mg, capsule 20 mg and 80 mg productspecific bioequivalence guidance
- 15 <u>Disclaimer</u>:

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- 16 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
- 17 marketing authorisation application complies with the appropriate scientific, regulatory and legal requirements.
- B. Requirements for bioequivalence demonstration (PKWP)\*

BCS Classification**	BCS Class:
Bioequivalence study design in case a BCS biowaiver is not feasible or applied	single dose cross-over
	healthy volunteers
	Strength: for capsules: 80 mg and for tablets: 60 mg  Background: Highest strength to be used for a drug with linear pharmacokinetics and low solubility.

	Number of studies: One single dose study for each dosage form.	
	Background: Cabozantinib tablets and capsules are not bioequivalent.	
Analyte	⊠ parent □ metabolite □ both	
	⊠ plasma/serum □ blood □ urine	
	Enantioselective analytical method:   yes   no	
Bioequivalence assessment	Main pharmacokinetic variables: $AUC_{0-72 \text{ and }} C_{\text{max}}$	
	<b>90% confidence interval:</b> 80.00– 125.00%	

<sup>\*</sup> 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.

<sup>\*\*</sup> 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).