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Committee for Medicinal Products for Human Use (CHMP)

Asenapine sublingual tablets 5 and 10 mg product-specific bioequivalence guidance*

Draft agreed by Pharmacokinetics Working Party (PKWP)	June 2015
Adoption by CHMP for release for consultation	25 June 2015
Start of public consultation	15 July 2015
End of consultation (deadline for comments)	1 November 2015
Agreed by Pharmacokinetics Working Party	23 February 2016
Adoption by CHMP	1 April 2016
Date for coming into effect	1 November 2016

*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"

Keywords	<i>Bioequivalence, generics, asenapine</i>
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Asenapine sublingual tablets 5 and 10 mg product-4 specific bioequivalence guidance

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)*

<p>BCS Classification</p>	<p>BCS Class: <input type="checkbox"/> I <input type="checkbox"/> III <input checked="" type="checkbox"/> Neither of the two</p> <p>Background: the active substance reaches the circulation primarily by absorption in the oral cavity, rather than by swallowing and absorption through the gastrointestinal tract. Therefore the product cannot be considered for a BCS based biowaiver.</p>
<p>Bioequivalence study design</p> <p><i>in case a BCS biowaiver is not feasible or applied</i></p>	<p>single dose</p> <p>cross-over</p>
	<p>healthy volunteers or patients in case of intolerability</p>
	<p><input checked="" type="checkbox"/> fasting <input type="checkbox"/> fed <input type="checkbox"/> both <input type="checkbox"/> either fasting or fed</p>
	<p>Strength: 5 and 10 mg</p> <p>Background: non-linear pharmacokinetics of asenapine may be attributed to both limited solubility and limitations in the absorption capacity from the oral mucosa following sublingual administration. As per the</p>

	<p>Guideline on the Investigation of Bioequivalence (CPMP/EWP/QWP/1401/98 Rev.1/Corr; section 4.1.6), for drugs with a less than proportional increase in AUC with increasing dose over the therapeutic dose range, bioequivalence should in most cases be established both at the highest strength and at the lowest strength (or a strength in the linear range), i.e. in this situation two bioequivalence studies are needed.</p>
	<p>Number of studies: two single dose studies</p>
	<p>Other critical aspects: no fluids to be administered 1 hour before or 1 hour after dosing. Clear description of procedures for administering the product, mouth rinse and checks etc. Procedures should be representative of normal conditions of use e.g. no special measures to prevent swallowing of drug that would not be applicable in normal clinical use.</p>
Analyte	<input checked="" type="checkbox"/> parent <input type="checkbox"/> metabolite <input type="checkbox"/> both
	<input checked="" type="checkbox"/> plasma/serum <input type="checkbox"/> blood <input type="checkbox"/> urine
	Enantioselective analytical method: <input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Bioequivalence assessment	<p>Main pharmacokinetic variables: AUC_{0-72h} and C_{max}</p>
	<p>90% confidence interval: 80.00– 125.00%</p>

* 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.