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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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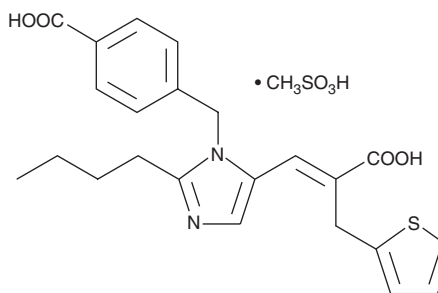
PRODUCT INFORMATION



Eprosartan (mesylate)

Item No. 11578

CAS Registry No.: 144143-96-4
Formal Name: (αE)-[[2-butyl-1-[(4-carboxyphenyl)methyl]-1H-imidazol-5-yl]methylene]-2-thiophenepropanoic acid, mesylate
Synonym: SKF 108566J
MF: C₂₃H₂₄N₂O₄S • CH₃SO₃H
FW: 520.6
Purity: ≥98%
UV/Vis.: λ_{max}: 233, 271 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Eprosartan (mesylate) is supplied as a crystalline solid. A stock solution may be made by dissolving the eprosartan (mesylate) in the solvent of choice. Eprosartan (mesylate) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of eprosartan (mesylate) in ethanol is approximately 1 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Eprosartan (mesylate) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, eprosartan (mesylate) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Eprosartan (mesylate) has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Angiotensin II, as part of the renin-angiotensin-aldosterone system, facilitates a sympathetic nervous system response mediated by the angiotensin II type 1 (AT₁) receptor, causing vasoconstriction and subsequent increase in blood pressure. It potentiates noradrenaline release from sympathetic nerve terminals at the presynaptic level as well as amplifies the α-adrenoceptor-mediated vasoconstrictor response to endogenous noradrenaline. Angiotensin II receptor blockers (ARBs) are a major class of therapeutics designed to lower blood pressure and to provide cardiovascular protection.^{1,2} Eprosartan (mesylate) is a competitive AT₁ receptor antagonist with IC₅₀ values ranging from 1.4 – 3.9 nM and an elimination half-life of five to seven hours.³ Eprosartan is structurally distinct from other noncompetitive ARBs in that it does not contain a biphenyl, tetrazole moiety and blocks angiotensin II receptors on both sympathetic nerve terminals and blood vessels.²

References

1. Munger, M.A. Use of angiotensin receptor blockers in cardiovascular protection: Current evidence and future directions. *PT* **36**(1), 22-40 (2011).
2. Blankestijn, P.J. and Rupp, H. Clinical profile of eprosartan: A different angiotensin II receptor blocker. *Cardiovasc. Hematol. Agents Med. Chem.* **6**(4), 253-257 (2008).
3. Burnier, M. Angiotensin II type 1 receptor blockers. *Circulation* **103**(6), 904-912 (2001).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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