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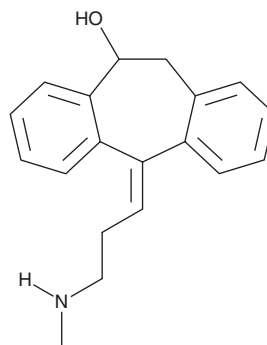
PRODUCT INFORMATION



cis-10-hydroxy Nortriptyline

Item No. 36659

CAS Registry No.: 47132-19-4
Formal Name: (5*Z*)-10,11-dihydro-5-[3-(methylamino)propylidene]-5H-dibenzo[*a,d*]cyclohepten-10-ol
Synonym: 10(*Z*)-hydroxy Nortriptyline
MF: C₁₉H₂₁NO
FW: 279.4
Purity: ≥90%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

cis-10-hydroxy Nortriptyline is supplied as a solid. A stock solution may be made by dissolving the *cis*-10-hydroxy nortriptyline in the solvent of choice, which should be purged with an inert gas. *cis*-10-hydroxy Nortriptyline is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of *cis*-10-hydroxy nortriptyline in these solvents is approximately 5, 10, and 30 mg/ml, respectively.

cis-10-hydroxy Nortriptyline is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, *cis*-10-hydroxy nortriptyline should first be dissolved in DMF and then diluted with the aqueous buffer of choice. *cis*-10-hydroxy Nortriptyline has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

cis-10-hydroxy Nortriptyline is an active metabolite of the tricyclic antidepressants amitriptyline (Item No. 15881) and nortriptyline (Item No. 15904).^{1,2} It is formed from amitriptyline and nortriptyline by the cytochrome P450 (CYP) isoform CYP2D6.¹ *cis*-10-hydroxy Nortriptyline inhibits norepinephrine reuptake in rat cortical slices (EC₅₀ = 160 nM).²

References

1. Coutts, R.T., Bach, M.V., and Baker, G.B. Metabolism of amitriptyline with CYP2D6 expressed in a human cell line. *Xenobiotica* **27**(1), 33-47 (1997).
2. Bertilsson, I., Mellström, B., and Sjöqvist, F. Pronounced inhibition of noradrenaline uptake by 10-hydroxymetabolites of nortriptyline. *Life Sci.* **25**(15), 1285-1292 (1979).

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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