PRODUCT INFORMATION



O-Desmethyl Metoprolol

Item No. 21787

CAS Registry No.: 62572-94-5

4-[2-hydroxy-3-[(1-methylethyl)amino] Formal Name:

propoxy]-benzeneethanol

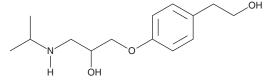
Synonyms: O-DMM, SL 80-0088

MF: $C_{14}H_{23}NO_{3}$ 253.3 FW: ≥95% **Purity:**

UV/Vis.: λ_{max} : 224, 277 nm Supplied as: A crystalline 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

O-Desmethyl metoprolol is supplied as a crystalline solid. A stock solution may be made by dissolving the O-desmethyl metoprolol in the solvent of choice, which should be purged with an inert gas. O-Desmethyl metoprolol is soluble in dichloromethane and chloroform. It is slightly soluble in methanol.

Description

O-Desmethyl metoprolol is a metabolite of the β_1 -adrenergic receptor (β_1 -AR) antagonist metoprolol (Item No. 15429). It is formed from metoprolol by the cytochrome P450 (CYP) isoform CYP2D6. 2,3

References

- 1. Cerqueira, P.M., Cesarino, E.J., Bertucci, C., et al. Stereoselective metabolism of metoprolol: Enantioselectivity of α-hydroxymetoprolol in plasma and urine. Chirality 15(6), 542-549 (2003).
- 2. Seeringer, A., Brockmöller, J., Bauer, S., et al. Enantiospecific pharmacokinetics of metoprolol in CYP2D6 ultra-rapid metabolizers and correlation with exercise-induced heart rate. Eur. J. Clin. Pharmacol. **64(9)**, 883-888 (2008).
- 3. Bae, S.H., Lee, J.K., Cho, D.-Y., et al. Simultaneous determination of metoprolol and its metabolites, α-hydroxymetoprolol and O-desmethylmetoprolol, in human plasma by liquid chromatography with tandem mass spectrometry: Application to the pharmacokinetics of metoprolol associated with CYP2D6 genotypes. J. Sep. Sci. 37(11), 1256-1264 (2014).

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

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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