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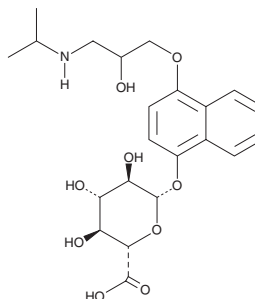
PRODUCT INFORMATION



(±)-4-hydroxy Propranolol β-D-Glucuronide

Item No. 22383

CAS Registry No.: 94731-13-2
Formal Name: 4-[2-hydroxy-3-[(1-methylethyl)amino]propoxy]-1-naphthalenyl β-D-glucopyranosiduronic acid
MF: C₂₂H₂₉NO₉
FW: 451.5
Purity: ≥90%
Supplied as: A 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

(±)-4-hydroxy Propranolol β-D-glucuronide is supplied as a solid. A stock solution may be made by dissolving the (±)-4-hydroxy propranolol β-D-glucuronide in water. We do not recommend storing the aqueous solution for more than one day.

Description

(±)-4-hydroxy Propranolol β-D-glucuronide is a metabolite of (±)-4-hydroxy propranolol (Item No. 18630), which is a metabolite of propranolol.^{1,2} The apparent half-life of (±)-4-hydroxy propranolol β-D-glucuronide is similar to propranolol and 4-hydroxy propranolol.² Propranolol is a β-adrenergic antagonist, and the active enantiomer, (S)-(-)-propranolol (Item No. 17291), has log K_d values of -8.16, -9.08, and -6.93 for β₁, β₂, and β₃, respectively.^{3,4}

References

1. Thompson, J.A., Hull, J.E., and Norris, K.J. Glucuronidation of propranolol and 4'-hydroxypropranolol. Substrate specificity and stereoselectivity of rat liver microsomal glucuronyltransferases. *Drug Metab. Dispos.* **9(5)**, 466-471 (1981).
2. Walle, T., Conradi, E.C., Walle, U.K., et al. 4-Hydroxypropranolol and its glucuronide after single and long-term doses of propranolol. *Clin. Pharmacol. Ther.* **27(10)**, 22-31 (1980).
3. Baker, J.G. The selectivity of β-adrenoceptor antagonists at the human β₁, β₂ and β₃ adrenoceptors. *Br. J. Pharmacol.* **144(3)**, 317-322 (2005).
4. Mehvar, R. and Brocks, D.R. Stereospecific pharmacokinetics and pharmacodynamics of β-adrenergic blockers in humans. *J. Pharm. Pharm. Sci.* **4(2)**, 185-200 (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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