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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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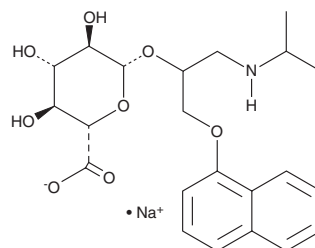
PRODUCT INFORMATION



Propranolol β -D-Glucuronide (sodium salt)

Item No. 22382

Formal Name: β -D-glucopyranosiduronic acid, 1-[[[(1-methylethyl)amino]methyl]-2-(1-naphthalenyloxy)ethyl], monosodium salt
MF: $C_{22}H_{28}NO_8 \cdot Na$
FW: 457.5
Purity: $\geq 95\%$ (mixture of diastereomers)
Supplied as: A solid
Storage: $-20^{\circ}C$
Stability: ≥ 2 years



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

Laboratory Procedures

Propranolol β -D-glucuronide (sodium salt) is supplied as a solid. A stock solution may be made by dissolving the propranolol β -D-glucuronide (sodium salt) in the solvent of choice. Propranolol β -D-glucuronide (sodium salt) is soluble in the organic solvent methanol, which should be purged with an inert gas.

Description

Propranolol β -D-glucuronide is a major metabolite of propranolol. The clearance of propranolol through glucuronidation is higher in men than women by approximately 50%.¹ Propranolol β -D-glucuronide has been detected in environmental water samples.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 β_1 , β_2 , and β_3 , respectively.^{3,4}

References

1. Walle, T., Walle, U.K., Cowart, T.D., *et al.* Pathway-selective sex differences in the metabolic clearance of propranolol in human subjects. *Clin. Pharmacol. Ther.* **46(3)**, 257-263 (1989).
2. López-Serna, R., Petrović, M., and Barceló, D. Direct analysis of pharmaceuticals, their metabolites and transformation products in environmental waters using on-line TurboFlow™ chromatography-liquid chromatography-tandem mass spectrometry. *J. Chromatogr. A.* **1252**, 115-129 (2012).
3. Baker, J.G. The selectivity of β -adrenoceptor antagonists at the human β_1 , β_2 and β_3 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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