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- Trockeneiszuschlag
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- Expressversand

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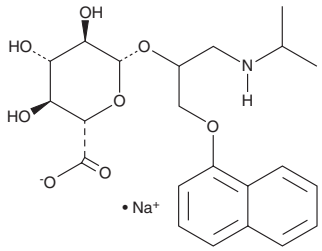
PRODUCT INFORMATION

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:	$C_{22}H_{28}NO_8 \bullet Na$
FW:	457.5
Purity:	≥95% (mixture of diastereomers)
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

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. Chomatogr. A.* **1252**, 115-129 (2012).
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).

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