5-hydroxy Propranolol
Item No. 19880

CAS Registry No.: 81907-82-6
Formal Name: 5-[2-hydroxy-3-[1-methylethylamino]propoxy]-1-naphthalenol
MF: C_{16}H_{21}NO_{3}
FW: 275.3
Purity: ≥98%
UV/Vis.: λ_{max}: 226, 297, 314, 328 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

5-hydroxy Propranolol is supplied as a crystalline solid. A stock solution may be made by dissolving the 5-hydroxy propranolol in the solvent of choice. 5-hydroxy Propranolol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of 5-hydroxy propranolol in ethanol and DMSO is approximately 30 mg/ml and approximately 50 mg/ml in DMF.

5-hydroxy Propranolol is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 5-hydroxy propranolol should first be dissolved in DMF and then diluted with the aqueous buffer of choice. 5-hydroxy Propranolol 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

5-hydroxy Propranolol is a metabolite of propranolol (Item No. 17291), a β-adrenergic receptor antagonist.\textsuperscript{1} Propranolol is primarily metabolized in the liver, with cytochrome P450 isofrom 2D6 directing ring hydroxylation and the generation of 5-hydroxy propranolol and related metabolites.\textsuperscript{2-4}

References