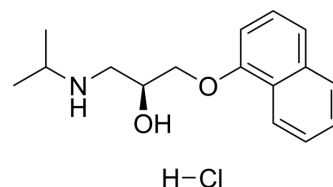


(S)-(-)-Propranolol hydrochloride

| | |
|---------------------------|--|
| Cat. No.: | HY-B0573A |
| CAS No.: | 4199-10-4 |
| Molecular Formula: | C ₁₆ H ₂₂ ClNO ₂ |
| Molecular Weight: | 295.8 |
| Target: | Adrenergic Receptor |
| Pathway: | GPCR/G Protein; Neuronal Signaling |
| Storage: | 4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (169.03 mM; Need ultrasonic)
 H₂O : ≥ 10 mg/mL (33.81 mM)
 * "≥" means soluble, but saturation unknown.

| Preparing Stock Solutions | Solvent | Mass | 1 mg | 5 mg | 10 mg |
|---------------------------|---------------|------|-----------|------------|------------|
| | Concentration | | | | |
| | 1 mM | | 3.3807 mL | 16.9033 mL | 33.8066 mL |
| | 5 mM | | 0.6761 mL | 3.3807 mL | 6.7613 mL |
| | 10 mM | | 0.3381 mL | 1.6903 mL | 3.3807 mL |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

(S)-(-)-Propranolol hydrochloride is a β-adrenergic receptor antagonist with log K_d values of -8.16, -9.08, and -6.93 for β₁, β₂, and β₃, respectively. (S)-(-)-Propranolol hydrochloride the active enantiomer of propranolol and can be used for study of hypertension, pheochromocytoma, myocardial infarction, cardiac arrhythmias, angina pectoris, and hypertrophic cardiomyopathy^[2].

IC₅₀ & Target

β adrenergic receptor

REFERENCES

[1]. Jillian G Baker, et al. The selectivity of beta-adrenoceptor antagonists at the human beta1, beta2 and beta3 adrenoceptors. Br J Pharmacol. 2005 Feb;144(3):317-22.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA