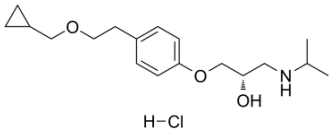
Levobetaxolol hydrochloride

Cat. No.:	HY-B0381B
CAS No.:	116209-55-3
Molecular Formula:	$C_{18}H_{30}ClNO_3$
Molecular Weight:	343.89
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (290.79 mM)
H_2O : 25 mg/mL (72.70 mM; Need ultrasonic)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.9079 mL	14.5395 mL	29.0791 mL
	5 mM	0.5816 mL	2.9079 mL	5.8158 mL
	10 mM	0.2908 mL	1.4540 mL	2.9079 mL

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

In Vivo

1. Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
   Solubility: ≥ 2.5 mg/mL (7.27 mM); Clear solution
2. Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
   Solubility: ≥ 2.5 mg/mL (7.27 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Levobetaxolol hydrochloride is a beta-adrenergic receptor inhibitor (beta blocker) that can lower the pressure in the eye. Levobetaxolol hydrochloride can be used for the research of glaucoma.

REFERENCES

[1]. Quaranta L, et al. Levobetaxolol hydrochloride: a review of its pharmacology and use in the treatment of chronic open-angle glaucoma and ocular hypertension. Clin Ophthalmol. 2007 Jun;1(2):93-97.

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