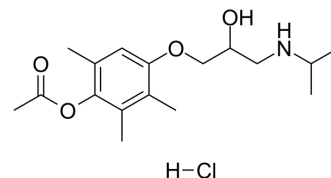


Metipranolol hydrochloride

Cat. No.:	HY-16316
CAS No.:	36592-77-5
Molecular Formula:	C ₁₇ H ₂₈ ClNO ₄
Molecular Weight:	345.86
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

H₂O : ≥ 100 mg/mL (289.13 mM)
 DMSO : 100 mg/mL (289.13 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.8913 mL	14.4567 mL	28.9134 mL
	5 mM	0.5783 mL	2.8913 mL	5.7827 mL
	10 mM	0.2891 mL	1.4457 mL	2.8913 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (289.13 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (7.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (7.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.23 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Metipranolol hydrochloride is a non-selective β adrenergic receptor blocking agent.

IC₅₀ & Target

β adrenergic receptor ^[1].

In Vitro

Metipranolol is used systemically for the treatment of arterial hypertension and topically for the management of glaucoma

[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Pharmaceut Biomed. 2020, 113870.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Wolf S, et al. Acute effect of metipranolol on the retinal circulation. Br J Ophthalmol. 1998 Aug;82(8):892-6.

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

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