

Levobunolol hydrochloride

Cat. No.: HY-B1035 CAS No.: 27912-14-7 Molecular Formula: C₁₇H₂₆ClNO₃ Molecular Weight: 327.85

Target: Adrenergic Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

-20°C, sealed storage, away from moisture Storage:

* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro DMSO: \geq 62.5 mg/mL (190.64 mM)

> H₂O: 50 mg/mL (152.51 mM; Need ultrasonic) * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	3.0502 mL	15.2509 mL	30.5018 mL
	5 mM	0.6100 mL	3.0502 mL	6.1004 mL
	10 mM	0.3050 mL	1.5251 mL	3.0502 mL

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

In Vivo

- 1. Add each solvent one by one: PBS Solubility: 50 mg/mL (152.51 mM); Clear solution; Need ultrasonic
- 2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.34 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.34 mM); Clear solution
- 4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.34 mM); Clear solution

BIOLOGICAL ACTIVITY

 $Levo bunolol \ (I-Bunolol) \ hydrochloride is a potent and nonselective \ \beta-adrenergic \ receptor \ antagonist. \ Levo bunolol \ (I-Bunolol) \ hydrochloride is a potent and nonselective \ \beta-adrenergic \ receptor \ antagonist. \ Levo \ bunolol \ (I-Bunolol) \ hydrochloride is a potent \ and \ nonselective \ \beta-adrenergic \ receptor \ antagonist. \ Levo \ bunolol \ hydrochloride is a potent \ and \ nonselective \ \beta-adrenergic \ receptor \ antagonist. \ Levo \ bunolol \ hydrochloride is a potent \ and \ nonselective \ \beta-adrenergic \ receptor \ antagonist. \ Levo \ bunolol \ hydrochloride is a potent \ and \ nonselective \ \beta-adrenergic \ receptor \ antagonist. \ Levo \ bunolol \ hydrochloride is a potent \ and \ nonselective \ \beta-adrenergic \ receptor \ antagonist. \ Levo \ bunolol \ hydrochloride is a potent \ hydrochloride is a pote$ Description

hydrochloride is an ocular hypotensive agent and lowers mean intraocular pressure (IOP). Levobunolol hydrochloride can

be used for glaucoma and superior oblique myokymia (SOM) research^{[1][2][3]}.

IC₅₀ & Target β-adrenoceptor

CUSTOMER VALIDATION

• BMC Ophthalmol. 2021 Dec 5;21(1):419.

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REFERENCES

- [1]. Mohammadi M, et al. Injectable drug depot engineered to release multiple ophthalmic therapeutic agents with precise time profiles for postoperative treatment following ocular surgery. Acta Biomater. 2018 Jun;73:90-102.
- [2]. Kumar, N, et al. Extended levobunolol release from Eudragit nanoparticle-laden contact lenses for glaucoma therapy. Futur J Pharm Sci 6, 109 (2020).
- [3]. Zhang M, et al. Superior oblique myokymia treated with levobunolol. J AAPOS. 2018 Feb;22(1):67-69.e2.

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