(+)-Mepivacaine

Cat. No.: HY-119961

CAS No.: 24358-84-7

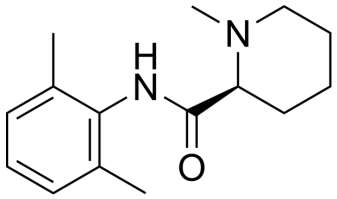
Molecular Formula: $C_{15}H_{22}N_2O$

Molecular Weight: 246.35

Target: Others

Pathway: Others

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (405.93 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	4.0593 mL	20.2963 mL	40.5927 mL
	5 mM	0.8119 mL	4.0593 mL	8.1185 mL
	10 mM	0.4059 mL	2.0296 mL	4.0593 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 (10.15 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (10.15 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (10.15 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(+)-Mepivacaine is a racemic isomer of Mepivacaine (HY-B0517), which has analgesic and vasoconstrictive activity. Mepivacaine is an amide type agent that temporarily causes local loss of consciousness. Mepivacaine binds to specific voltage-gated sodium channels on neuronal cell membranes, inhibiting sodium influx and membrane depolarization[1].

REFERENCES

[1]. Fairley J W, et al. An intradermal study of the local anaesthetic and vascular effects of the isomers of mepivacaine[J]. British Journal of Anaesthesia, 1981, 53(11): 1211-1216.

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