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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Tolycaine

Cat. No.: HY-105584

CAS No.: 3686-58-6

Molecular Formula: $C_{15}H_{22}N_2O_3$

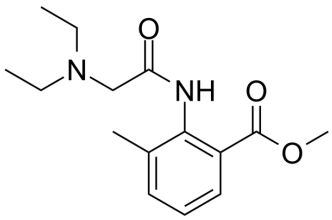
Molecular Weight: 278.35

Target: Others

Pathway: Others

Storage:

Pure form	-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 (359.26 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5926 mL	17.9630 mL	35.9260 mL
	5 mM	0.7185 mL	3.5926 mL	7.1852 mL
	10 mM	0.3593 mL	1.7963 mL	3.5926 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: ≥ 2.58 mg/mL (9.27 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.58 mg/mL (9.27 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.58 mg/mL (9.27 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tolycaine is a local anaesthetic. Tolycaine also induces a convulsive response in experimental animals[1].

In Vivo

Tolycaine (140, 150 mg/kg; i.p.; single) induces convulsions by modification of monoamines in rat brain[1].

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

Animal Model:	Male Wistar rats (190-230 g)[1].
Dosage:	130, 140, 150, 165 mg/kg
Administration:	Intraperitoneal injection; single.
Result:	Produced clonic convulsions following ataxia and the loss of the righting reflex and the frequency of convulsions was dose-dependently intensified, as shown by shortening of the latency and prolongations of the duration and the sedation time. Produced a significant elevation of noradrenaline and 5-hydroxytryptamine levels in all brain regions in the convulsive state from the levels in the non-convulsive state when at 140 mg/kg. Led to rats took the opisthotonic position, gasped for breath, and died during the cdnvulsions when dosage more than 150 mg/kg.

REFERENCES

[1]. Satoh T, et al. Pharmacological analysis of local anaesthetic tolycaine-induced convulsions by modification of monoamines in rat brain. Pharmacol Toxicol. 1996 Dec;79(6):305-11.

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