Oxolamine citrate

Cat. No.: HY-B1042

CAS No.: 1949-20-8

Molecular Formula: $C_{20}H_{27}N_3O_8$

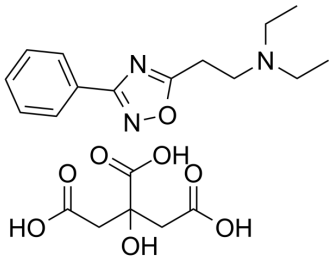
Molecular Weight: 437.44

Target: Others

Pathway: Others

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

DMSO : ≥ 100 mg/mL (228.60 mM)

H_2O : 14.29 mg/mL (32.67 mM; Need ultrasonic)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Mass / Solvent / Concentration	1 mg	5 mg	10 mg
1 mM	2.2860 mL	11.4301 mL	22.8603 mL
5 mM	0.4572 mL	2.2860 mL	4.5721 mL
10 mM	0.2286 mL	1.1430 mL	2.2860 mL

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

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 28 mg/mL (64.01 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (5.72 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.72 mM); Clear solution
4. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.72 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Oxolamine citrate (SKF-9976 citrate) is a cough suppressant that can be used for the research of respiratory tract diseases. Oxolamine citrate also exhibits anti-inflammatory effect[1][2].

REFERENCES

[1]. Kirilmaz L, et, al. Sustained-release dosage form of oxolamine citrate: preparation and release kinetics. J Microencapsul. Apr-Jun 1992;9(2):167-72.

[2]. GIUDICI G, et, al. [On the anti-inflammatory action of oxolamine citrate]. Minerva Med. 1961 Oct 31;52:3752-5.

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