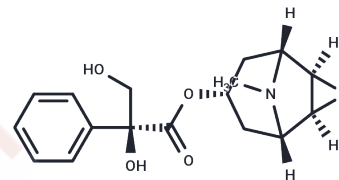


Anisodine

Chemical Properties

CAS No. :	52646-92-1
Formula:	C ₁₇ H ₂₁ NO ₅
Molecular Weight:	319.35
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Anisodine is an inhibitor of muscarinic acetylcholine receptors (mAChR) with neuroprotective activity, used in research on multiple myeloma and metastatic breast cancer.
Targets(IC50)	Calcium Channel,AChR,ROS
In vitro	In HEK293 cells, Anisodine inhibited OCT1 and OCT2 with IC50 of 12.9 μmol/L and 1.8 mmol/L, respectively. [1]
In vivo	Anisodine has protective effect on acute forebrain ischemia-reperfusion injury in rats. [2] Anisodine (10 mg/kg, i.p.) can induce forgetfulness in animal models. [3]

Solubility Information

Solubility	DMSO: 250 mg/mL (782.84 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1314 mL	15.6568 mL	31.3136 mL
5 mM	0.6263 mL	3.1314 mL	6.2627 mL
10 mM	0.3131 mL	1.5657 mL	3.1314 mL
50 mM	0.0626 mL	0.3131 mL	0.6263 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Chen JY, et al. An in vitro study on interaction of anisodine and monocrotaline with organic cation transporters of the SLC22 and SLC47 families. Chin J Nat Med. 2019 Jul;17(7):490-497.

Xu W, Deng YF. Effect of anisodine on acute forebrain ischemia-reperfusion damage in rats. Zhongguo Yao Li Xue Bao. 1996 Mar;17(2):161-3.

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