Data Sheet (Cat.No.T12608)

TargetMol
YOUR TARGET MOLECULES

QX-314 chloride

Chemical Properties

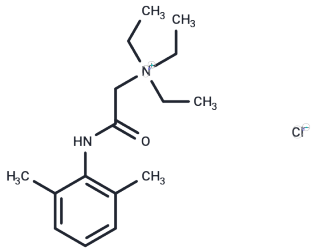
CAS No. : 5369-03-9

Formula: C16H27ClN2O

Molecular Weight: 298.85

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	QX-314 chloride is a membrane-impermeable permanently charged blocker of sodium channel.
Targets(IC50)	Sodium Channel
In vitro	QX-314 chloride (1-60 mM) directly activates TRPV1 in a concentration-dependent manner.QX-314 chloride exerts biphasic effects on transient receptor potential vanilloid subtype 1 channels (TRPV1) in vitro. QX-314 chloride (10 mM) inhibits calcium currents in hippocampal CA1 pyramidal neurons intracellular, and the low-threshold (T-type) Ca2+ currents are on average < 45% of control amplitude[2].

Solubility Information

Solubility	DMSO: 14.29 mg/mL (47.82 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3462 mL	16.7308 mL	33.4616 mL
5 mM	0.6692 mL	3.3462 mL	6.6923 mL
10 mM	0.3346 mL	1.6731 mL	3.3462 mL
50 mM	0.0669 mL	0.3346 mL	0.6692 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.

Reference

Rivera-Acevedo RE, et al. The quaternary lidocaine derivative, QX-314, exerts biphasic effects on transient receptor potential vanilloid subtype 1 channels in vitro. Anesthesiology. 2011 Jun;114(6):1425-34.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481