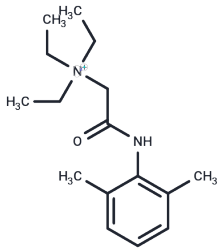
Data Sheet (Cat.No.T8341)

TargetMol

QX 314

Chemical Properties



CAS No. : 21306-56-9

Formula: C16H27N2O

Molecular Weight: 263.4

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	QX 314 (Lidocaine N-ethyl bromide) is a blocker of non-membrane-permeable,and Inhibits Acid-Induced Activation of Esophageal Nociceptive C Fiber Neurons.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 10 mg/mL (37.97 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7965 mL	18.9825 mL	37.9651 mL
5 mM	0.7593 mL	3.7965 mL	7.593 mL
10 mM	0.3797 mL	1.8983 mL	3.7965 mL
50 mM	0.0759 mL	0.3797 mL	0.7593 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

Hu Y , Yu X , Yu S . QX-314 inhibits acid-induced activation of esophageal nociceptive C fiber neurons[J]. Neurogastroenterology & Motility, 2019.

Laffon M , Jayr C , Barbry P , et al. Lidocaine Induces a Reversible Decrease in Alveolar Epithelial Fluid Clearance in Rats[J]. Anesthesiology, 2002, 96(2):392-399.

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