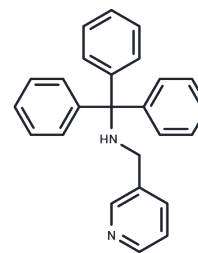


UCL 2077

Chemical Properties

CAS No. : 918311-87-2
 Formula: C₂₅H₂₂N₂
 Molecular Weight: 350.46
 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	UCL 2077 is a subtype-selective blocker of the epilepsy-associated KCNQ channels and it also is a selective slow-afterhyperpolarization channel blocker, with IC ₅₀ of 500 nM in hippocampal neurons in culture, having minimal effects on Ca ²⁺ channels, action potentials, input resistance, and the medium afterhyperpolarization.
Targets(IC ₅₀)	Others, Potassium Channel

Solubility Information

Solubility	DMSO: 50 mg/mL (142.67 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8534 mL	14.267 mL	28.5339 mL
5 mM	0.5707 mL	2.8534 mL	5.7068 mL
10 mM	0.2853 mL	1.4267 mL	2.8534 mL
50 mM	0.0571 mL	0.2853 mL	0.5707 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

Shah MM, et al. Enhancement of hippocampal pyramidal cell excitability by the novel selective slow-afterhyperpolarization channel blocker 3-(triphenylmethylaminomethyl)pyridine (UCL2077). *Mol Pharmacol.* 2006 Nov;70(5):1494-502.

Soh H, et al. The specific slow afterhyperpolarization inhibitor UCL2077 is a subtype-selective blocker of the epilepsy associated KCNQ channels. *Mol Pharmacol.* 2010 Dec;78(6):1088-95.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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