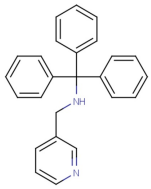
Data Sheet (Cat.No.T17197)

TargetMol
A DRUG SCREENING EXPERT

UCL 2077

Chemical Properties



CAS No.:	918311-87-2
Formula:	C25H22N2
Molecular Weight:	350.46
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	UCL 2077 is also a subtype-selective blocker of the epilepsy-associated KCNQ channels and it also is a selective slow-afterhyperpolarization channel blocker (IC50 = 500 nM in hippocampal neurons in culture), having minimal effects on Ca2+ channels, action potentials, input resistance, and the medium afterhyperpolarization.
Targets(IC_{50})	sAHP: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.853 mL	14.267 mL	28.534 mL
5 mM	0.571 mL	2.853 mL	5.707 mL
10 mM	0.285 mL	1.427 mL	2.853 mL
50 mM	0.057 mL	0.285 mL	0.571 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.
2. 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.

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