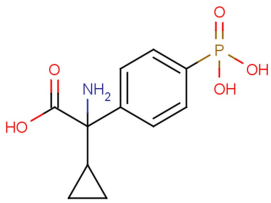
Data Sheet (Cat.No.T10880)

TargetMol
A DRUG SCREENING EXPERT

CPPG

Chemical Properties



CAS No.:	183364-82-1
Formula:	C11H14NO5P
Molecular Weight:	271.21
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	CPPG is a potent antagonist of group II/III mGlu receptors. CPPG exhibits some selectivity (approximately 20 fold) for group III (IC50: 2.2 nM) over group II (IC50: 46.2 nM) mGlu receptors in the rat cerebral cortex.
Targets(IC_{50})	Others: None
In vitro	CPPG ((RS)-CPPG) potently reversed both L-AP4 (IC50: 2.2 nM)- and L-CCG-I (IC50: 46.2 nM) -mediated inhibition of forskolin-stimulated cyclic AMP accumulation in adult rat cortical slices. CPPG has weak effects at the group I mGlu receptors in both the neonatal rat cortex and cultured cerebellar granule cells.

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.687 mL	18.436 mL	36.872 mL
5 mM	0.737 mL	3.687 mL	7.374 mL
10 mM	0.369 mL	1.844 mL	3.687 mL
50 mM	0.074 mL	0.369 mL	0.737 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. Toms NJ, et al. The effects of (RS)-alpha-cyclopropyl-4-phosphonophenylglycine ((RS)-CPPG), a potent and selective metabotropic glutamate receptor antagonist. Br J Pharmacol. 1996 Nov;119(5):851-4.

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