Screening Libraries

Product Data Sheet

CPPG

Cat. No.: HY-101333 CAS No.: 183364-82-1 Molecular Formula: C,,H,4NO,P

Molecular Weight: 271 Target: mGluR

Pathway: GPCR/G Protein; Neuronal Signaling

-20°C Storage: Powder

3 years 4°C 2 years

-80°C In solvent 6 months

> -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

1M NaOH: 50 mg/mL (184.50 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	3.6900 mL	18.4502 mL	36.9004 mL
	5 mM	0.7380 mL	3.6900 mL	7.3801 mL
	10 mM	0.3690 mL	1.8450 mL	3.6900 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description CPPG ((RS)-CPPG) is a potent group II/III mGlu receptors antagonist. CPPG exhibits some selectivity (approximately 20 fold)

for group III (IC $_{50}$ =2.2 nM) over group II (IC $_{50}$ =46.2 nM) mGlu receptors in the rat cerebral cortex. CPPG has weak effects at

group I mGlu receptors^[1].

IC₅₀ & Target group III mGlu receptors group II mGlu receptors

> 2.2 nM (IC₅₀) 46.2 nM (IC₅₀)

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 is a potent antagonist against group II/III mGlu receptors in the adult rat cortex and shows moderate selectivity for group III mGlu receptors. Conversely, CPPG has weak effects at group I mGlu receptors in both the neonatal rat cortex and cultured cerebellar granule cells^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES



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