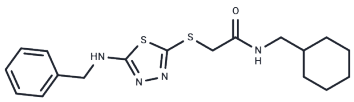
Data Sheet (Cat.No.T8450)

TargetMol
YOUR TARGET MOLECULES

TCN 213

Chemical Properties



CAS No. : 556803-08-8

Formula: C18H24N4OS2

Molecular Weight: 376.54

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	TCN 213 is an antagonist of NMDA receptor that has a selective for NR1/NR2A over NR1/NR2B
Targets(IC50)	NMDAR
In vitro	TCN 213 antagonism of GluN1/GluN2A NMDA receptors was dependent on glycine but independent of glutamate concentrations in external recording solutions.?Antagonism by TCN 213 was surmountable and gave a Schild plot with unity slope.?TCN 213 block of GluN1/GluN2B NMDA receptor-mediated currents was negligible.?In cortical neurones, at a early developmental stage predominantly expressing GluN2B-containing NMDA receptors, TCN 213 failed to antagonize NMDA receptor-mediated currents or to prevent GluN2B-dependent, NMDA-induced excitoxicity.?In older cultures (DIV 14) or in neurones transfected with GluN2A subunits, TCN 213 antagonized NMDA-evoked currents.?Block by TCN 213 of NMDA currents inversely correlated with block by ifenprodil, a selective GluN2B antagonist.

Solubility Information

Solubility	DMSO: 30 mg/mL (79.67 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6558 mL	13.2788 mL	26.5576 mL
5 mM	0.5312 mL	2.6558 mL	5.3115 mL
10 mM	0.2656 mL	1.3279 mL	2.6558 mL
50 mM	0.0531 mL	0.2656 mL	0.5312 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.

Reference

Mckay S , Griffiths N H , Butters P A , et al. Direct pharmacological monitoring of the developmental switch in NMDA receptor subunit composition using TCN 213, a GluN2A-selective, glycine-dependent antagonist[J]. British Journal