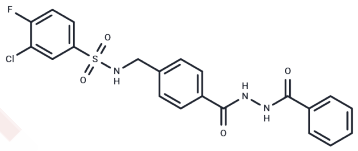
Data Sheet (Cat.No.T7870)

TargetMol

TCN 201

Chemical Properties



CAS No. : 852918-02-6

Formula: C21H17ClFN3O4S

Molecular Weight: 461.89

Storage: Powder: -20°C for 3 years
Actual storage temperature shall be subject to the COA.

Biological Description

Description	TCN 201 is a selective antagonist of NMDA receptors containing the NR2A subunit.
Targets(IC50)	NMDAR,iGluR
In vitro	TCN-201, a new GluN1/GluN2A-selective NMDA receptor antagonist whose inhibition can be surmounted by glycine.?Electrophysiological recordings from chimeric and mutant rat NMDA receptors suggest that TCN-201 binds to a novel allosteric site located at the dimer interface between the GluN1 and GluN2 agonist binding domains.? Occupancy of this site by TCN-201 inhibits NMDA receptor function by reducing glycine potency.?TCN-201 is therefore a negative allosteric modulator of glycine binding[1].

Solubility Information

Solubility	DMSO: 20 mg/mL (43.3 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.33 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.165 mL	10.8251 mL	21.6502 mL
5 mM	0.433 mL	2.165 mL	4.330 mL
10 mM	0.2165 mL	1.0825 mL	2.165 mL
50 mM	0.0433 mL	0.2165 mL	0.433 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

Hansen K B , Ogden K K , Traynelis S . Subunit-selective allosteric inhibition of glycine binding to NMDA receptors [J]. journal of neuroscience the official journal of the society for neuroscience, 2012, 32(18):6197.
Bettini E , Sava A , Griffante C , et al. Identification and Characterization of Novel NMDA Receptor Antagonists Selective for NR2A- over NR2B-Containing Receptors[J]. Journal of Pharmacology & Experimental Therapeutics, 2010, 335(3):636-644.