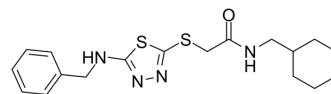


TCN 213

Cat. No.:	HY-107712
CAS No.:	556803-08-8
Molecular Formula:	C ₁₈ H ₂₄ N ₄ OS ₂
Molecular Weight:	376.54
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (663.94 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				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
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.52 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	TCN 213 is a selective, surmountable, glycine-dependently GluN1/GluN2A NMDAR antagonist with IC ₅₀ s of 0.55, 3.5, 40 μM in the presence of 75, 750, 7500 nM glycine, respectively. TCN 213 can be used to monitor, pharmacologically, the switch in NMDAR expression in developing cortical neurones ^{[1][2]} .
IC ₅₀ & Target	GluN1/GluN2A NMDAR 0.55-40 μM (IC ₅₀)
In Vitro	TCN 213 (30 μM) antagonizes NMDA-evoked currents in neurones transfected with GluN2A subunits ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. McKay, S et al. "Direct pharmacological monitoring of the developmental switch in NMDA receptor subunit composition using TCN 213, a GluN2A-selective, glycine-dependent antagonist." British journal of pharmacology vol. 166,3 (2012): 924-37.

[2]. Edman S, et al. TCN 201 selectively blocks GluN2A-containing NMDARs in a GluN1 co-agonist dependent but non-competitive manner. Neuropharmacology. 2012 Sep;63(3):441-9.

Caution: Product has not been fully validated for medical applications. For research use only.

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