

Product Name : TCN213

Synonyms : —

**Cat No.** : M21967

**CAS Number** : 556803-08-8

Molecular Formula : C18H24N4OS2

Formula Weight : 376.54

Chemical Name : ----

Description

TCN213 is an antagonist of NMDA receptor that has a selective for NR1/NR2A over NR1/NR2BTCN 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.

Pathway : Membrane Transporter/Ion Channel

Target : NMDAR

Receptor : NMDA receptor

Solubility : —

SMILES : O=C(CSc1nnc(NCc2cccc2)s1)NCC1CCCC1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

 $1. Mckay\ S\ , Griffiths\ N\ H\ , Butters\ P\ A\ , et\ al.\ Direct\ pharmacological\ monitoring\ of\ the\ developmental\ switch\ in\ NMDA\ receptor\ subunit\ composition\ using\ TCN\ 213,\ a\ GluN2A-selective,\ glycine-dependent\ antagonist[J].\ British\ Journal\ of\ Pharmacology,\ 2012,\ 166(3):924-937.$