

**Product Name:** TCN 201

**Catalog No.:** 4154

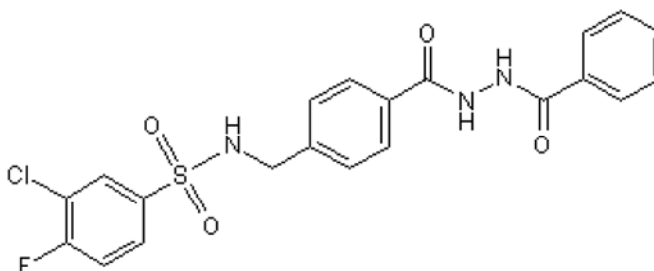
**Batch No.:** 2

CAS Number: 852918-02-6

IUPAC Name: 3-Chloro-4-fluoro-N-[4-[[2-(phenylcarbonyl)hydrazino]carbonyl]benzyl]benzenesulfonamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>17</sub>ClFN<sub>3</sub>O<sub>4</sub>S  
**Batch Molecular Weight:** 461.89  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	54.61	3.71	9.1
Found	54.71	3.68	9.14

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

NMDA receptor antagonist selective for GluN1/GluN2A (formally NR1/NR2A) over GluN1/GluN2B (formally NR1/NR2B) containing receptors (pIC<sub>50</sub> values are 6.8 and <4.3, respectively, in human recombinant GluN1/GluN2A (formally NR1/NR2A) and GluN1/GluN2B (formally NR1/NR2B) FLIPR/Ca<sup>2+</sup> assays). Please refer to IUPHAR Guide to Pharmacology for the most recent naming conventions.

**Physical and Chemical Properties:**

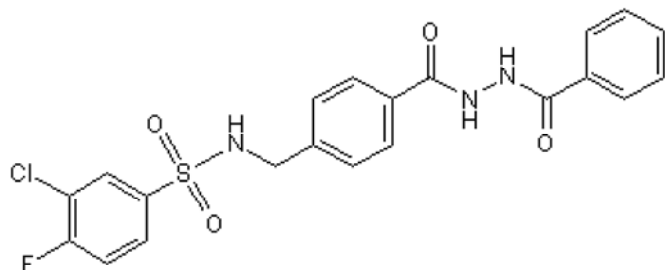
Batch Molecular Formula: C<sub>21</sub>H<sub>17</sub>ClFN<sub>3</sub>O<sub>4</sub>S

Batch Molecular Weight: 461.89

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Gipson *et al*** (2013) Reinstatement of nicotine seeking is mediated by glutamatergic plasticity. *Proc.Natl.Acad.Sci.U S A* [Epub ahead of print]. PMID: 23671067.

**Edman *et al*** (2012) TCN 201 selectively blocks GluN2A-containing NMDARs in a GluN1 co-agonist dependent but non-competitive manner. *Neuropharmacology* **63** 441. PMID: 22579927.

**Hansen *et al*** (2012) Subunit-selective allosteric inhibition of glycine binding to NMDA receptors. *J.Neurosci.* **32** 6197. PMID: 22553026.

**Shin *et al*** (2011) Subtype selective NMDA receptor antagonists induce recovery of synapses lost following exposure to HIV-1 Tat. *Br.J.Pharmacol.* **166** 1002. PMID: 22142193.

**Bettini *et al*** (2010) Identification and characterization of novel NMDA receptor antagonists selective for NR2A- over NR2B-containing receptors. *J.Pharm.Exp.Ther.* **335** 644. PMID: 20810618.

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**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956