# Data Sheet (Cat.No.T12872)

TargetMol

## SDZ 220-581 Ammonium salt

### Chemical Properties

CAS No. : 179411-94-0

Formula: C16H20ClN2O5P

Molecular Weight: 386.77

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

### Biological Description

| | |
|---|---|
| Description | SDZ 220-581 Ammonium salt is a competitive antagonist of the NMDA receptor with high binding affinity (pKi ≈ 7.7). It has shown oral activity in animal studies. |
| Targets(IC50) | iGluR |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 1.6 mg/mL (4.14 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.5855 mL | 12.9276 mL | 25.8552 mL |
| 5 mM | 0.5171 mL | 2.5855 mL | 5.171 mL |
| 10 mM | 0.2586 mL | 1.2928 mL | 2.5855 mL |
| 50 mM | 0.0517 mL | 0.2586 mL | 0.5171 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


Urwyler S, et al. Biphenyl-derivatives of 2-amino-7-phosphono-heptanoic acid, a novel class of potent competitive N-methyl-D-aspartate receptor antagonists--II. Pharmacological characterization in vivo. Neuropharmacology. 1996 Jun;35(6):655-69.

Gilmour G, et al. In vitro characterisation of the novel positive allosteric modulators of the $mGlu_5$ receptor, LSN2463359 and LSN2814617, and their effects on sleep architecture and operant responding in the rat. Neuropharmacology. 2013 Jan;64:224-39.

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