# TOCRIS a biotechne brand

#### Print Date: Nov 11th 2019

## **Certificate of Analysis**

### www.tocris.com

Batch No.: 11

Catalog No.: 1250

#### Product Name: SDZ 220-581

CAS Number: 174575-17-8

IUPAC Name: (S)-α-Amino-2'-chloro-5-(phosphonomethyl)[1,1'-biphenyl]-3-propanoic acid

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C<sub>16</sub>H<sub>17</sub>CINO<sub>5</sub>P.<sup>1</sup>/<sub>4</sub>H<sub>2</sub>O 374.24 White solid DMSO to 25 mM with gentle warming 1.1eq. NaOH to 100 mM 1eq. HCl to 10 mM with gentle warming Store at RT

## Storage:

**Batch Molecular Structure:** 

OH PO(OH)<sub>2</sub> NH<sub>2</sub> CI

### 2. ANALYTICAL DATA

TLC:  $R_f = 0.7 (IPA/H2O/aq.NH3 (6:3:1))$ HPLC: Shows 98.0% purity **Chiral HPLC:** Shows 99.5% purity <sup>1</sup>H NMR: Consistent with structure Mass Spectrum: Consistent with structure **Optical Rotation:**  $[\alpha]_D = -7.2$  (Concentration = 1, Solvent = 6N HCl) **Microanalysis:** Carbon Hydrogen Nitrogen Theoretical 51.35 4.71 3.74 Found 51.44 4.6 3.8

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

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#### Description:

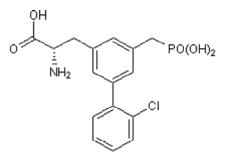
Competitive NMDA receptor antagonist (pK<sub>i</sub> = 7.7). Centrally active following oral administration (ED<sub>50</sub> < 3.2 mg/kg for protection against MES-induced seizures).

#### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>16</sub>H<sub>17</sub>CINO<sub>5</sub>P.¼H<sub>2</sub>O Batch Molecular Weight: 374.24 Physical Appearance: White solid

#### Minimum Purity: >98%

#### **Batch Molecular Structure:**



#### Storage: Store at RT

#### Solubility & Usage Info:

DMSO to 25 mM with gentle warming 1.1eq. NaOH to 100 mM 1eq. HCl to 10 mM with gentle warming

#### 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).

Catalog No.: 1250

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.

#### Licensing Information:

Sold with the permission of Novartis Pharma AG

#### **References:**

**Bakshi** *et al* (1999) Disruption of prepulse inhibition and increases in locomotor activity by competitive N-MthD.-aspartate receptor antagonists in rats. J.Pharmacol.Exp.Ther. **288** 643. PMID: 9918570.

**Urwyler** *et al* (1996) Biphenyl-derivatives of 2-amino-7-phosphono-heptanoic acid, a novel class of potent competitive *N*-MthD.-aspartate receptor antagonists - I. Pharmacological characterization *in vitro*. Neuropharmacology **35** 643. PMID: 8887974.

**Urwyler** *et al* (1996) Biphenyl-derivatives of 2-amino-7-phosphono-heptanoic acid, a novel class of potent competitive *N*-MthD.-aspartate receptor antagonists - II. Pharmacological characterization *in vivo*. Neuropharmacology **35** 655. PMID: 8887975.

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