TOCRIS
a bio-techne brand

Print Date: Jan 15th 2016

Certificate of Analysis

www.tocris.com

Product Name: **SDZ 220-040** **Catalog No.: 1251** **Batch No.: 1**

CAS Number: 174575-40-7

IUPAC Name: (*S*)-α-Amino-2',4'-dichloro-4-hydroxy-5-(phosphonomethyl)-[1,1'-biphenyl]-3-propanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{16}Cl_2NO_6P.1¾H_2O$

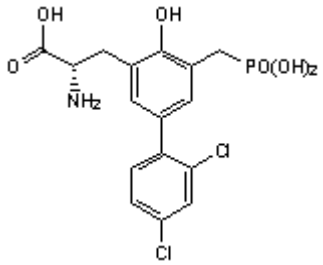
Batch Molecular Weight: 451.7

Physical Appearance: Light yellow solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.12 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Melting Point: Between 258 - 261°C

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	
Theoretical	44.1	4.51	3.22	0 0 0
Found	43.8	4.12	3.34	0 0 0

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

Product Name: **SDZ 220-040** **Catalog No.: 1251** **Batch No.: 1**

CAS Number: 174575-40-7

IUPAC Name: (*S*)-α-Amino-2',4'-dichloro-4-hydroxy-5-(phosphonomethyl)-[1,1'-biphenyl]-3-propanoic acid

Description:

Potent competitive antagonist at the NMDA receptor (pK_i = 8.5). Selective over a range of other receptor sites.

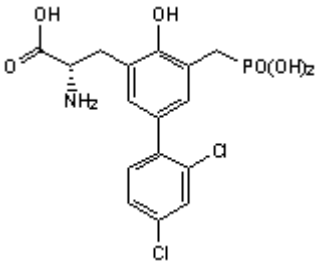
Physical and Chemical Properties:

Batch Molecular Formula: $C_{16}H_{16}Cl_2NO_6P.1¾H_2O$

Batch Molecular Weight: 451.7

Physical Appearance: Light yellow solid

Batch Molecular Structure:



Storage: Store at RT

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:

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