Print Date: Dec 9th 2017

Certificate of Analysis

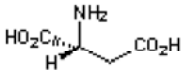
www.tocris.com

Product Name: **D-Aspartic acid** **Catalog No.: 0213** **Batch No.: 10**

CAS Number: 1783-96-6 EC Number: 217-234-6

IUPAC Name: D-Aminosuccinic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_4H_7NO_4$
Batch Molecular Weight:	133.1
Physical Appearance:	White solid
Solubility:	1eq. NaOH to 100 mM
Storage:	Store at RT
Batch Molecular Structure:	

2. ANALYTICAL DATA

^{1}H NMR:	Consistent with structure

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

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: **D-Aspartic acid**
Catalog No.: 0213 **Batch No.: 10**

CAS Number: 1783-96-6
EC Number: 217-234-6

IUPAC Name: D-Aminosuccinic acid

Description:

Endogenous NMDA receptor agonist with similar activity to the L-isomer. Also a non-metabolizable substrate for EAA uptake systems. Modulates melatonin synthesis in the pineal gland. L-isomer also available.

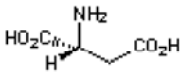
Physical and Chemical Properties:

Batch Molecular Formula: $C_4H_7NO_4$

Batch Molecular Weight: 133.1

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1eq. NaOH 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:

Ishio *et al* (1998) D-Aspartate modulates melatonin synthesis in rat pinealocytes. Neurosci.Lett. ***249*** 143. PMID: 9682837.

Hashimoto *et al* (1997) Free D-aspartate and D-serine in the mammalian brain and periphery. Prog.Neurobiol. ***53*** 325. PMID: 9247969.

Olverman *et al* (1988) Structure/activity relations of NMDA receptor ligands as studied by their inhibition of 3H-D-AP5 binding in rat brain membranes. Neuroscience ***26*** 17. PMID: 2901691.

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