Product Name: NMDA Catalo
Catalog No.: 0114    Batch No.: 36
CAS Number: 6384-92-5
IUPAC Name: N-Methyl-D-aspartic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_5\text{H}_9\text{NO}_4.\frac{1}{4}\text{H}_2\text{O} \)
Batch Molecular Weight: 151.63
Physical Appearance: White solid
Solubility: water to 100 mM
phosphate buffered saline to 100 mM
1eq. NaOH to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

Chiral HPLC: Shows 100% purity
\(^1\text{H} \text{NMR:} \) Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: \([\alpha]_D = -15.4 \) (Concentration = 1, Solvent = Water)
Microanalysis:

Carbon   Hydrogen   Nitrogen
Theoretical  39.61  6.31  9.24
Found      39.85  6.43  9.24
Product Information

Product Name: NMDA

CAS Number: 6384-92-5
IUPAC Name: N-Methyl-D-aspartic acid

Description:
Prototypic NMDA receptor agonist. Also available as part of the Mixed NMDA Receptor Tocriset™. Caged version also available (Cat. No 2224).

Physical and Chemical Properties:
Batch Molecular Formula: C\textsubscript{8}H\textsubscript{11}NO\textsubscript{3} \cdot \frac{1}{4}H\textsubscript{2}O
Batch Molecular Weight: 151.63
Physical Appearance: White solid
Minimum Purity: >99%

Batch Molecular Structure:

![Molecular Structure](image)

Storage: Store at RT

Solubility & Usage Info:
water to 100 mM
phosphate buffered saline to 100 mM
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: