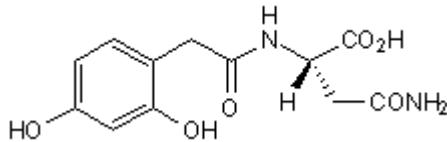


Certificate of Analysis**Product Name:** 2,4-Dihydroxyphenylacetyl-L-asparagine**Catalog No.:** 0262**Batch No.:** 1

CAS Number: 111872-98-1

1. PHYSICAL AND CHEMICAL PROPERTIES**Batch Molecular Formula:** C₁₂H₁₄N₂O₆**Batch Molecular Weight:** 282.25**Physical Appearance:** White solid**Solubility:** water to 50 mM**Storage:** Desiccate at -20°C**Batch Molecular Structure:****2. ANALYTICAL DATA****Melting Point:** Between 151 - 153°C(dec)**Mass Spectrum:** Consistent with structure**Optical Rotation:** [α]_D = +23.6 (Concentration = 1.18, Solvent = Methanol)**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 51.06 5 9.93

Found 51.17 5.36 9.6

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

Product Name: 2,4-Dihydroxyphenylacetyl-L-asparagine**Catalog No.:** 0262**Batch No.:** 1

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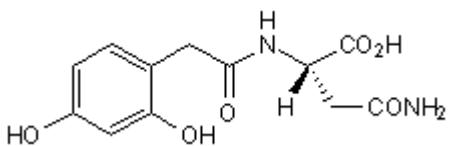
Description:

Constituent of various spider toxins. Reported to be specific blocker of glutamate receptors.

Physical and Chemical Properties:Batch Molecular Formula: C₁₂H₁₄N₂O₆

Batch Molecular Weight: 282.25

Physical Appearance: White solid

Batch Molecular Structure:**Storage:** Desiccate at -20°C**Solubility & Usage Info:**

water to 50 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:

Pan-Hou *et al* (1987) Inhibitory effect of 2,4-dihydroxyphenylacetylaspargagine, a common moiety of spider toxin, on glutamate binding to rat brain synaptic membranes. *Neurosci.Lett.* **81** 199. PMID: 2827066.

Pan-Hou *et al* (1989) A spider toxin (JSTX) inhibits L-glutamate uptake by rat brain synaptosomes. *Brain Res.* **476** 354. PMID: 2564797.

Usherwood *et al* (1990) Mechanisms of neurotoxicity of low molecular weight spider toxins. *Basic Science in Toxicology*. Ed. G.N. Volans 569.

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