

Certificate of Analysis

Product Name: NPEC-caged-(S)-3,5-DHPG

Catalog No.: 2923

Batch No.: 1

CAS Number: 1257323-86-6

IUPAC Name: (N)-1-(2-Nitrophenyl)ethylcarboxy-(S)-3,3-Dihydroxyphenylglycine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₆N₂O₈·½H₂O

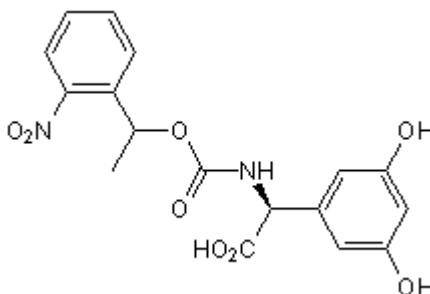
Batch Molecular Weight: 385.33

Physical Appearance: White solid

Solubility: water to 5 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.21 (Chloroform:Methanol [9:1])

HPLC: Shows 97.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.99	4.45	7.27
Found	52.85	4.47	7.05

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

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Description:

1-(2-nitrophenyl)ethyl caged version of (S)-3,5-DHPG (Cat. No. 0805).

Physical and Chemical Properties:

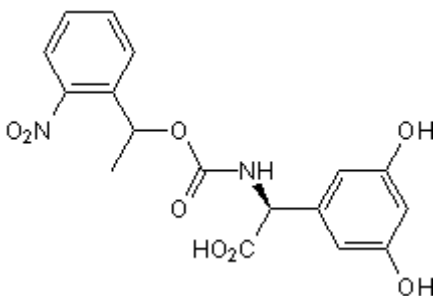
Batch Molecular Formula: C₁₇H₁₆N₂O₈ · ½H₂O

Batch Molecular Weight: 385.33

Physical Appearance: White solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

water to 5 mM

DMSO to 100 mM

Whilst supplied of high purity, this product is very sensitive to air and light promoted oxidation, and may discolour slightly over time. (S)-3,5-DHPG is also known to rapidly decomposes when dissolved in alkaline solution. Therefore, as a precautionary measure we recommend that the solid material be stored at -20°C, away from light, under which conditions it should be stable for 6 months from the date of purchase. When made up, stock solutions should be aliquoted, stored at -20°C and used as quickly as possible.

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:

Palma-Cerda et al (2012) New caged neurotransmitter analogs selective for glutamate receptor sub-types based on methoxynitroindoline and nitrophenylethoxycarbonyl caging groups. *Neuropharmacology*. **63** 624. PMID: 22609535.

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