

Product Name: HIOC

Catalog No.: 5961

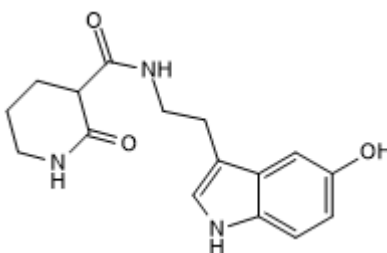
Batch No.: 1

CAS Number: 314054-36-9

IUPAC Name: *N*-[2-(5-Hydroxy-1*H*-indol-3-yl)ethyl]-2-oxo-3-piperidinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₉N₃O₃
Batch Molecular Weight: 301.34
Physical Appearance: Light purple solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Ethyl acetate:Methanol [9:1])
HPLC: Shows >99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.77	6.36	13.94
Found	63.92	6.35	14.03

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

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IUPAC Name: *N*-[2-(5-Hydroxy-1*H*-indol-3-yl)ethyl]-2-oxo-3-piperidinecarboxamide

Description:

Selective TrkB receptor agonist. Protects neurons from excitotoxicity. Protects retinas from light-induced retinal degeneration (LIRD) in vivo. Blood brain barrier and blood-retinal barrier penetrant.

Physical and Chemical Properties:

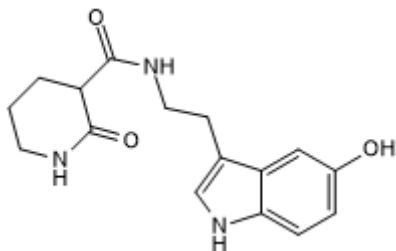
Batch Molecular Formula: C₁₆H₁₉N₃O₃

Batch Molecular Weight: 301.34

Physical Appearance: Light purple solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Setterholm et al (2015) Gram-scale, chemoselective synthesis of *N*-[2-(5-hydroxy-1*H*-indol-3-yl)ethyl]-2-oxopiperidine-3-carboxamide (HIOC) *Tetrahedron Lett.* **56** 3413. PMID: 26028783.

Shen et al (2012) *N*-acetyl serotonin derivatives as potent neuroprotectants for retinas *Proc.Natl.Acad.Sci.USA* **109** 3540. PMID: 22331903.

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:

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.

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