

Certificate of Analysis

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Product Name: PHCCC

Catalog No.: 1027

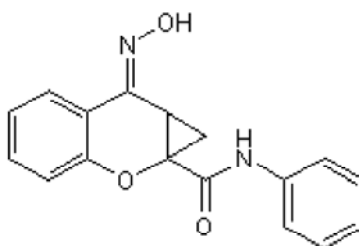
Batch No.: 7

CAS Number: 179068-02-1

IUPAC Name: *N*-Phenyl-7-(hydroxyimino)cyclopropa[*b*]chromen-1a-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₄N₂O₃
Batch Molecular Weight: 294.31
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.8 (Diethyl ether)
HPLC: Shows 98.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.38	4.79	9.52
Found	68.3	4.79	9.61

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

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IUPAC Name: *N*-Phenyl-7-(hydroxyimino)cyclopropa[*b*]chromen-1a-carboxamide

Description:

PHCCC is a group I metabotropic glutamate receptor antagonist ($IC_{50} \sim 3 \mu M$); 67 times more potent than (S)-4-carboxyphenylglycine (Cat. No. 0323). Also a positive allosteric modulator for mGlu_{4a}; potentiates L-AP4-mediated inhibition of striatopallidal synaptic transmission in vitro. Displays antiParkinsonian effects in rats in vivo.

Physical and Chemical Properties:

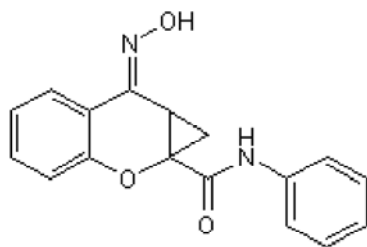
Batch Molecular Formula: C₁₇H₁₄N₂O₃

Batch Molecular Weight: 294.31

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Marino et al (2003) Allosteric modulation of group III metabotropic glutamate receptor 4: a potential approach to Parkinson's disease treatment. *Proc.Natl.Acad.Sci.USA* **100** 13668. PMID: 14593202.

Flor et al (2002) Positive allosteric modulators of metabotropic glutamate receptor subtype 4: pharmacological and molecular characterization. *Neuropharmacology* **43** 286 Abstr.No. 47.

Mao and Wang (2001) Selective activation of group I metabotropic glutamate receptors upregulates preprodynorphin, substance P and preproenkephalin mRNA expression in rat dorsal striatum. *Synapse* **39** 82. PMID: 11071713.

Storage: Store at RT

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.

Licensing Information:

Sold for research purposes under license from Suntory Ltd.

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