

Certificate of Analysis

www.tocris.com

Product Name: CPCCOEt

Catalog No.: 1028

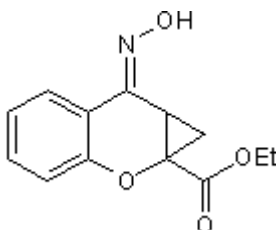
Batch No.: 12

CAS Number: 179067-99-3

IUPAC Name: 7-(Hydroxyimino)cyclopropa[b]chromen-1a-carboxylate ethyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₃NO₄
Batch Molecular Weight: 247.25
Physical Appearance: White solid
Solubility: ethanol to 5 mM
 DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.33 (Chloroform: Ethyl acetate [95:5])
HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.15	5.3	5.67
Found	63.32	5.23	5.67

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

Product Name: CPCCOEt

Catalog No.: 1028

Batch No.: 12

CAS Number: 179067-99-3

IUPAC Name: 7-(Hydroxyimino)cyclopropa[b]chromen-1a-carboxylate ethyl ester

Description:

hmGlu₁ subtype-selective non-competitive antagonist (IC₅₀ = 6.5 μM). Has no agonist or antagonist activity at hmGlu_{2, 4a, 5a, 7b, 8a} or ionotropic receptors at concentrations of up to 100 μM.

Physical and Chemical Properties:

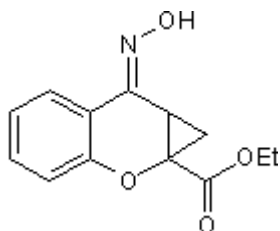
Batch Molecular Formula: C₁₃H₁₃NO₄

Batch Molecular Weight: 247.25

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Annoura et al (1996) A novel class of antagonists for metabotropic glutamate receptors, 7-(hydroxyimino)cyclopropa[b]chromen-1a-carboxylates. *Bioorg.Med.Chem.Lett.* **6** 763.

Hermans et al (1998) Reversible and non-competitive antagonist profile of CPCCOEt at the human type 1α metabotropic glutamate receptor. *Neuropharmacology* **37** 1645. PMID: 9886688.

Litschig et al (1999) CPCCOEt, a noncompetitive metabotropic glutamate receptor 1 antagonist, inhibits receptor signaling without affecting glutamate binding. *Mol.Pharmacol.* **55** 453. PMID: 10051528.

Storage: Store at RT

Solubility & Usage Info:

ethanol to 5 mM

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.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956