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DATASHEET

CPCCOEt

Product overview

| | |
|--------------------------|---|
| Name | CPCCOEt |
| Cat No | HB0216 |
| Biological action | Antagonist |
| Purity | >99% |
| Description | Selective, non-competitive mGlu ₁ antagonist |

Images



Biological Data

| | |
|-------------------------------|--|
| Biological description | Selective and non-competitive mGlu ₁ receptor antagonist (IC ₅₀ = 6.5 μM). Displays no agonist or antagonist activity at mGlu ₂ , 4a, 5a, 7b and 8a or iGlu receptors at concentrations up to 100μM. Prevents rebound potentiation. |
|-------------------------------|--|

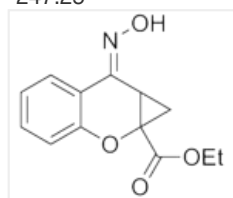
Solubility & Handling

| | |
|-----------------------------|---|
| Storage instructions | Room temperature |
| Solubility overview | Soluble in DMSO (100mM) |
| Important | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use. |

Chemical Data

| | |
|-------------------------|---|
| Chemical name | 7-(Hydroxyimino)cyclopropa[b]chromen-1a-carboxylate ethyl ester |
| Molecular Weight | 247.25 |

Chemical structure



Molecular Formula

C₁₃H₁₃NO₄

| | |
|---------------------------|---|
| CAS Number | 179067-99-3 |
| PubChem identifier | 6278000 |
| SMILES | <chem>CCOC(=O)C12CC1/C(=N\O)/C3=CC=CC=C3O2</chem> |
| Source | Synthetic |
| InChi | InChI=1S/C13H13NO4/c1-2-17-12(15)13-7-9(13)11(14-16)8-5-3-4-6-10(8)18-13/h3-6,9,16H,2,7H2,1H3/b14-11- |
| InChiKey | FXCTZFMSAHZQTR-KAMYIIQDSA-N |
| MDL number | MFCD00947859 |
| Appearance | White solid |

References

CPCCOEt, a noncompetitive metabotropic glutamate receptor 1 antagonist, inhibits receptor signaling without affecting glutamate binding.

Litschig S *et al* (1999) Mol Pharmacol 55(3)

PubMedID [10051528](#)

Reversible and non-competitive antagonist profile of CPCCOEt at the human type 1alpha metabotropic glutamate receptor.

Hermans E *et al* (1998) Neuropharmacology 37(12)

PubMedID [9886688](#)

mGluR1-mediated facilitation of long-term potentiation at inhibitory synapses on a cerebellar Purkinje neuron.

Sugiyama Y *et al* (2008) Eur J Neurosci 27(4)

PubMedID [18279362](#)
