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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



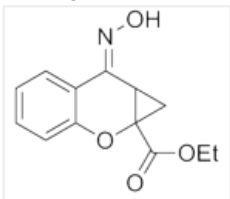
Biological Data

Biological description	Selective and non-competitive mGlu ₁ receptor antagonist ($IC_{50} = 6.5 \mu M$). Displays no agonist or antagonist activity at mGlu ₂ , 4a, 5a, 7b and 8a or iGlu receptors at concentrations up to 100 μM . Prevents rebound potentiation.
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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	C ₁₃ H ₁₃ NO ₄
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Chemical name	7-(Hydroxyimino)cyclopropa[<i>b</i>]chromen-1a-carboxylate ethyl ester
CAS Number	179067-99-3
PubChem identifier	6278000
SMILES	CCOC(=O)C12CC1/C(=N\O)/C3=CC=CC=C3O2
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](#)
