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DATASHEET

CFM-2

Product overview

Name	CFM-2
Cat No	HB0179
Biological action	Antagonist
Purity	>98%
Description	Selective, non-competitive AMPA receptor antagonist

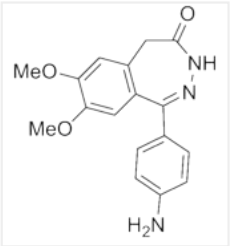
Biological Data

Biological description	Selective and non-competitive AMPA receptor antagonist. Inhibits ERK1/2 pathway and acts as an antiproliferative agent. Also shows anticonvulsant actions.

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	1-(4'-Aminophenyl)-3,5-dihydro-7,8-dimethoxy-4*H*-2,3-benzodiazepin-4-one
Molecular Weight	311.34
Chemical structure	
Molecular Formula	$C_{17}H_{17}N_3O_3$
CAS Number	178616-26-7
PubChem identifier	4377504
SMILES	COC1=CC2=C(C=C1OC)C(=NNC(=O)C2)C1=CC=C(N)C=C1
InChiKey	MJKADKZSYQWGLL-UHFFFAOYSA-N

References

Effects of some AMPA receptor antagonists on the development of tolerance in epilepsy-prone rats and in pentylenetetrazole kindled rats.

De Sarro G *et al* (1999) Eur J Pharmacol 368(2-3)

PubMedID 10193651

AMPA antagonists inhibit the extracellular signal regulated kinase pathway and suppress lung cancer growth.

Stepulak A *et al* (2007) Cancer Biol Ther 6(12)
PubMedID 18059166

1-Aryl-3,5-dihydro-4H-2,3-benzodiazepin-4-ones: novel AMPA receptor antagonists.

Chimirri A *et al* (1997) J Med Chem 40(8)
PubMedID 9111300