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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. |
|-------------------------------|--|

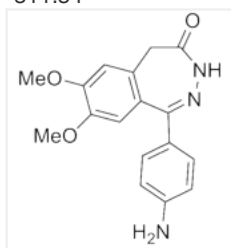
Solubility & Handling

| | |
|-----------------------------|---|
| 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-4H-2,3-benzodiazepin-4-one |
| Molecular Weight | 311.34 |

Chemical structure



| | |
|---------------------------|---|
| Molecular Formula | C ₁₇ H ₁₇ N ₃ O 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 pentylentetrazole 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](#)
