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## DATASHEET

CFM-2

### Product overview

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

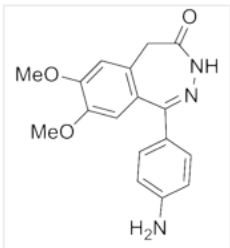
### Biological Data

<b>Biological description</b>	Selective and non-competitive AMPA receptor antagonist. Inhibits ERK1/2 pathway and acts as an antiproliferative agent. Also shows anticonvulsant actions.
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### Solubility & Handling

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

### Chemical Data

<b>Chemical name</b>	1-(4'-Aminophenyl)-3,5-dihydro-7,8-dimethoxy-4H-2,3-benzodiazepin-4-one
<b>Molecular Weight</b>	311.34
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>17</sub> H <sub>17</sub> N <sub>3</sub> O <sub>3</sub>
<b>CAS Number</b>	178616-26-7
<b>PubChem identifier</b>	4377504
<b>SMILES</b>	<chem>COC1=CC=C(C(=C1OC)C(=NNC(=O)C2)C1=CC=C(N)C=C2)C1=CC=C(N)C=C1</chem>
<b>InChiKey</b>	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](#)

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