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DATASHEET

MDCPG

Product overview

 Name
 MDCPG

 Cat No
 HB1602

 Alternative names
 (RS)-MDCPG

Description Selective mGlu₈ receptor antagonist

Images



Biological Data

Biological description

Selective $mGlu_8$ receptor antagonist ($K_i = 2.3 \, \mu M$ in mouse hippocampal slices). Can be used to distinguish actions of DCPG on $mGlu_8$ receptors versus off-target effects on $mGlu_2$ receptors. Also shown to reverse DCPG induced long term depression.

Solubility & Handling

Solubility overview Storage instructions Storage of solutions

Shipping Conditions

Important

Soluble in 0.1M NaOH (100mM) and in DMSO

+4°C (desiccate)

Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Stable for ambient temperature shipping. Follow storage instructions on receipt.

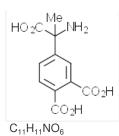
This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

Chemical name Molecular Weight Chemical structure (RS)-4-(1-Amino-1-carboxyethyl)phthalic acid

253.06



Molecular Formula PubChem identifier

91996985 **SMILES** CC(C1=CC(=C(C=C1)C(=O)O)C(=O)O)(C(=O)O)N

InChi InChl=1S/C11H11NO6/c1-11(12,10(17)18)5-2-3-6(8(13)14)7(4-5)9(15)16/h2-4H,12H2,1H3,(H,13,14)

)(H,15,16)(H,17,18)

InChiKey IGLGZJSKFBLMKQ-UHFFFAOYSA-N

References

Characterisation of an mGlu8 receptor-selective agonist and antagonist in the lateral and medial perforant path inputs to the dentate gyrus.

Mercier MS et al (2013) Neuropharmacology 67 **PubMedID** 23220400

Antagonists reversibly reverse chemical LTD induced by group I, group II and group III metabotropic glutamate receptors.

Lodge D et al (2013) Neuropharmacology 74 PubMedID 23542080