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DATASHEET

LY367385

Product overview

Name	LY367385
Cat No	HB0398
Biological action	Antagonist
Purity	>98%
Description	Potent, highly selective $mGlu_{1a}$ antagonist

Images

Biological Data

Biological description

LY367385 is a potent, highly selective and competitive $mGlu_{1a}$ receptor antagonist (IC_{50} = 8.8 µM for blockade of quis-induced phosphoinositide (PI) hydrolysis, compared with >100µM for $mGluR_5$ mediated responses). Water soluble version also available: LY-367385 hydrochloride.

LY367385 impairs induction and late phases of both long term potentiation (LTP) and long term depression (LTD) when applied before high-frequency tetanization (HFT) or low-frequency stimulation (LFS).

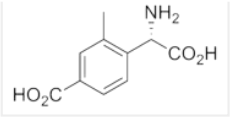
LY367385 also displays antidepressant, anticonvulsant and neuroprotective actions.

Solubility & Handling

Storage instructions	Room temperature (desiccate)
Solubility overview	Soluble in 0.1M NaOH (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	(*S*)-(+)-α-Amino-4-carboxy-2-methylbenzeneaceticacid
Molecular Weight	209.2
Chemical structure	



Molecular Formula	$C_{10}H_{11}NO_4$
CAS Number	198419-91-9
PubChem identifier	5311261
SMILES	CC1=C(C=CC(=C1)C(=O)O)[C@@H](C(=O)O)N
Source	Synthetic
InChi	InChI=1S/C10H11NO4/c1-5-4-6(9(12)13)2-3-7(5)8(11)10(14)15/h2-4,8H,11H2,1H3,(H,12,13)(H,14,15)/t8-/m0/s1
InChiKey	SGIKDIUCJAUSRD-QMMMGPOBSA-N
MDL number	MFCD02262124
Appearance	Off-white solid

References

Anticonvulsant actions of LY 367385 ((+)-2-methyl-4-carboxyphenylglycine) and AIDA ((RS)-1-aminoindan-1,5-dicarboxylic acid).

Chapman AG *et al* (1999) Eur J Pharmacol 368(1)
PubMedID 10096765

Neuroprotective activity of the potent and selective mGlu1a metabotropic glutamate receptor antagonist, (+)-2-methyl-4 carboxyphenylglycine (LY367385): comparison with LY357366, a broader spectrum antagonist with equal affinity for mGlu1a and mGlu5 recept

Bruno V *et al* (1999) Neuropharmacology 38(2)
PubMedID 10218860

Antidepressant-like effects of baclofen and LY367385 in the forced swim test in rats.

Car H *et al* (2006) Pharmacol Rep 58(5)
PubMedID 17085869

Metabotropic glutamate receptor 1 (mGluR1) and 5 (mGluR5) regulate late phases of LTP and LTD in the hippocampal CA1 region in vitro.

Neyman et al (2008) Eur J Neurosci 27(6)
PubMedID 18364018