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DATASHEET

(S)-MCPG sodium salt

Product overview

Name	(S)-MCPG sodium salt
Cat No	HB6112
Biological action	Antagonist
Purity	>99%
Description	Non-selective group I and II mGluR antagonist. Water soluble sodium salt.

Biological Data

Biological description

Non-selective group I and II mGluR antagonist. Water soluble sodium salt.

Active enantiomer of (R,S)-MCPG.

Displays slight activity at $mGlu_8$ receptor but none at $mGlu_4$ receptor.

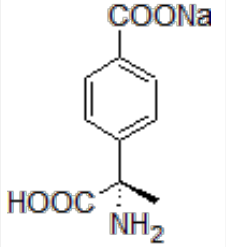
Inhibits MF-LTP (mossy fiber long term potentiation) and blocks induction of LTP in CA1 of rat hippocampus.

(S)-MCPG and (R,S)-MCPG sodium salt also available.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water (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-Methyl-4-carboxyphenylglycine sodium salt
Molecular Weight	231.18
Chemical structure	
Molecular Formula	$C_{10}H_{10}NNaO_4$
CAS Number	150145-89-4
PubChem identifier	0
SMILES	C[C@@](NH3+])(C([O-])=O)c1ccc(cc1)C([O-])=O

Chemical name	(S)-α-Methyl-4-carboxyphenylglycine sodium salt
Source	Syntheitc
Appearance	White solid

References

Structure-activity relationships for a series of phenylglycine derivatives acting at metabotropic glutamate receptors (mGluRs).

Bedingfield JS *et al* (1995) Br J Pharmacol 116(8)
PubMedID 8719814

Structure-activity relationships of new agonists and antagonists of different metabotropic glutamate receptor subtypes.

Sekiyama N *et al* (1996) Br J Pharmacol 117(7)
PubMedID 8730745

Pharmacological agents acting at subtypes of metabotropic glutamate receptors.

Schoepp DD *et al* (1999) Neuropharmacology 38(10)
PubMedID 10530808