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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 mGlu₈ receptor but none at mGlu₄ 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

Solubility overview Soluble in water (100mM) **Storage instructions** Room temperature

Storage of solutions 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.

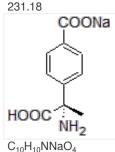
Shipping Conditions Stable for ambient temperature shipping. Follow storage instructions on receipt.

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 Molecular Weight Chemical structure (S)- α -Methyl-4-carboxyphenylglycine sodium salt



150145-89-4

Molecular Formula
CAS Number
PubChem identifier
SMILES

C[C@@]([NH3+])(C([O-])=O)c1ccc(cc1)C([O-])=O

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