

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@m2stage.hellobio.com



DATASHEET

(RS)-MCPG

Product overview

Name	(RS)-MCPG
Cat No	HB0037
Biological action	Antagonist
Purity	>98%
Description	Non-selective group I and II mGluR antagonist

Images



Biological Data

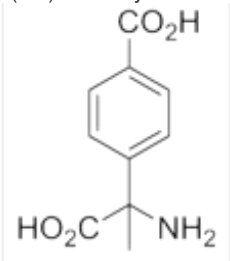
Biological description	Non-selective group I and II mGluR antagonist. Also competitive antagonist of ACPD sensitive receptors. Shows no effect on locomotor activity. Water soluble (R,S)-MCPG sodium salt and (S)-MCPG sodium salt also available. (S)-MCPG also available.
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Solubility & Handling

Storage instructions	Room temperature
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	(RS)- α -Methyl-4-carboxyphenylglycine
Molecular Weight	209.2
Chemical structure	

Chemical name	(<i>RS</i>)-α-Methyl-4-carboxyphenylglycine
	
Molecular Formula	C ₁₀ H ₁₁ NO ₄
CAS Number	146669-29-6
PubChem identifier	1222
SMILES	CC(C1=CC=C(C=C1)C(=O)O)(C(=O)O)N
Source	Synthetic
InChi	InChI=1S/C10H11NO4/c1-10(11,9(14)15)7-4-2-6(3-5-7)8(12)13/h2-5H,11H2,1H3,(H,12,13)(H,14,15)
InChiKey	DNCAZYRLRMTVSF-UHFFFAOYSA-N
MDL number	MFCD00210205
Appearance	White solid

References

The metabotropic glutamate receptor antagonist (RS)-MCPG produces hyperlocomotion in amphetamine pre-exposed rats.

Kim JH *et al* (1998) Neuropharmacology 37(2)

PubMedID [9680243](#)

MCPG antagonizes metabotropic glutamate receptors but not long-term potentiation in the hippocampus.

Manzoni OJ *et al* (1994) Eur J Neurosci 6(6)

PubMedID [7952274](#)

Competitive antagonism at metabotropic glutamate receptors by (S)-4-carboxyphenylglycine and (RS)-alpha-methyl-4-carboxyphenylglycine.

Eaton SA *et al* (1993) Eur J Pharmacol 244(2)

PubMedID [8381746](#)