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DATASHEET

(S)-3,4-DCPG

Product overview

Name	(S)-3,4-DCPG
Cat No	HB0044
Alternative names	(S)-3,4-Dicarboxyphenylglycine; UBP1109
Biological action	Agonist
Purity	>95%
Description	Potent, selective mGlu _{8a} agonist

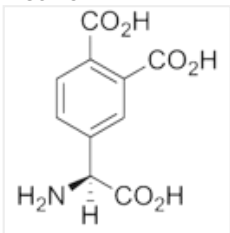
Biological Data

Biological description	Potent and selective mGlu _{8a} receptor agonist (EC ₅₀ = 31 nM). Selective for mGlu _{8a} receptor over mGlu ₁₋₇ receptors (EC ₅₀ / IC ₅₀ values are >3.5 μM). Shows neuroprotective, anti-cataleptic and anticonvulsant actions.
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Solubility & Handling

Storage instructions	Room temperature (desiccate)
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)-3,4-Dicarboxyphenylglycine
Molecular Weight	239.18
Chemical structure	
Molecular Formula	C ₁₀ H ₉ NO ₆
CAS Number	201730-11-2
PubChem identifier	16062593
SMILES	OC(=O)c1cc(ccc1C(=O)O)[C@H](N)C(=O)O
InChi	InChI=1S/C10H9NO6/c11-7(10(16)17)4-1-2-5(8(12)13)6(3-4)9(14)15/h1-3,7H,11H2,(H,12,13)(H,14,15)(H,16,17)/t7-m/s1
InChiKey	IJVMOGKBEVRBPP-ZETCQYMHSA-N

References

(S)-3,4-DCPG, a potent and selective mGlu_{8a} receptor agonist, activates metabotropic glutamate receptors on primary afferent terminals in the neonatal rat spinal cord.

Thomas NK *et al* (2001) *Neuropharmacology* 40(3)

PubMedID [11166323](#)

Neuroprotective effects of metabotropic glutamate receptor group II and III activators against MPP(+)-induced cell death in human neuroblastoma SH-SY5Y cells: the impact of cell differentiation state.

Jantas D *et al* (2014) *Neuropharmacology* 83

PubMedID [24713472](#)

The metabotropic glutamate receptor 8 agonist (S)-3,4-DCPG reverses motor deficits in prolonged but not acute models of Parkinson's disease.

Johnson KA *et al* (2013) *Neuropharmacology* 66

PubMedID [22546615](#)

Anticonvulsant and neuroprotective effect of (S)-3,4-dicarboxyphenylglycine against seizures induced in immature rats by homocysteic acid.

Folbergrová J *et al* (2008) *Neuropharmacology* 54(4)

PubMedID [18191956](#)
