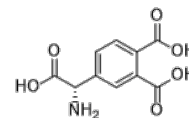


Product Name : (S)-3,4-DCPG
Cat. No. : PC-22229
CAS No. : 201730-11-2
Molecular Formula : C₁₀H₉NO₆
Molecular Weight : 239.18
Target : mGluR
Solubility : 10 mM in DMSO



CAS: 201730-11-2

Biological Activity

(S)-3,4-DCPG ((S)-3,4-Dicarboxyphenylglycine) is a potent and selective mGlu8 receptor (**mGluR8**) agonist with EC₅₀ of 31 nM in cell-based assays, with no activity against other mGlu receptors (IC₅₀>3,500 nM).

(S)-3,4-DCPG depressed the fast component of the dorsal root-evoked ventral root potential (fDR-VRP) giving a biphasic concentration-response curve showing EC₅₀ of 1.3 μM.

(S)-3,4-DCPG activates metabotropic glutamate receptors on primary afferent terminals in the neonatal rat spinal cord.

(S)-3,4-DCPG (100 mg/kg) significantly increased c-Fos expression in several stress-related brain regions: paraventricular nucleus of the hypothalamus, central nucleus of the amygdala, lateral parabrachial nucleus and locus coeruleus in mice.

References

Thomas NK, et al. *Neuropharmacology*. 2001 Mar;40(3):311-8.

Linden AM, et al. *Neuropharmacology*. 2003 Sep;45(4):473-83.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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