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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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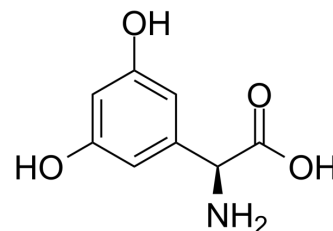
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(S)-3,5-DHPG

Cat. No.:	HY-12598
CAS No.:	162870-29-3
Molecular Formula:	C ₈ H ₉ NO ₄
Molecular Weight:	183.16
Target:	mGluR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (545.97 mM; Need ultrasonic)
H₂O : 25 mg/mL (136.49 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		5.4597 mL	27.2985 mL	54.5971 mL
	5 mM		1.0919 mL	5.4597 mL	10.9194 mL
	10 mM		0.5460 mL	2.7299 mL	5.4597 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (13.65 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (13.65 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (13.65 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(S)-3,5-DHPG is a weak, but selective group I metabotropic glutamate receptors (mGluRs) agonist with K_i values of 0.9 μM and 3.9 μM for mGluR1a and mGluR5a, respectively^[1]. (S)-3,5-DHPG exhibits anxiolytic activity in rats subjected to hypoxia^[2].

IC₅₀ & Target

mGluR1a 0.9 μM (K _i)	mGluR5a 3.9 μM (K _i)
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In Vitro	(S)-3,5-DHPG specifically displaces high-affinity quisqualate sites, the putative group I mGlu binding sites ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	(S)-3,5-DHPG (icv; 0.01, 0.1 and 1.0 nmol/5 µL) improves consolidation and retrieval and exhibits anxiolytic activity in dose-dependent manner in male Wistar rats weighing 160-180 g subjected to hypoxia ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. V Mutel, et al. Characterization of [(3)H]Quisqualate Binding to Recombinant Rat Metabotropic Glutamate 1a and 5a Receptors and to Rat and Human Brain Sections. J Neurochem. 2000 Dec;75(6):2590-601.
- [2]. Agnieszka Nadlewska, et al. Effect of (S)-3,5-DHPG on Learning, Exploratory Activity and Anxiety in Rats With Experimental Hypoxia. Pol J Pharmacol. Jan-Feb 2002;54(1):11-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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