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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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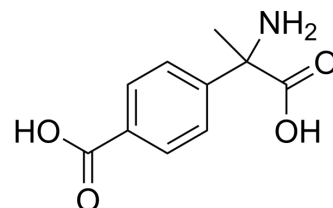
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(RS)-MCPG

Cat. No.:	HY-100371
CAS No.:	146669-29-6
Molecular Formula:	C ₁₀ H ₁₁ NO ₄
Molecular Weight:	209.2
Target:	mGluR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

1M NaOH : 100 mg/mL (478.01 mM; ultrasonic and adjust pH to 10 with NaOH)
DMSO : 6 mg/mL (28.68 mM; Need ultrasonic and warming)
H₂O : < 0.1 mg/mL (ultrasonic; heat to 80°C) (insoluble)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.7801 mL	23.9006 mL	47.8011 mL
	5 mM		0.9560 mL	4.7801 mL	9.5602 mL
	10 mM		0.4780 mL	2.3901 mL	4.7801 mL

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

BIOLOGICAL ACTIVITY

Description	(RS)-MCPG (alpha-MCPG) is a competitive and selective group I/group II metabotropic glutamate receptor (mGluR) antagonist. (RS)-MCPG blocks theta-burst stimulation (TBS)-induced shifts in both juvenile and neonatal rat hippocampal neurons ^{[1][2]} .
IC ₅₀ & Target	mGluR
In Vitro	MCPG can block group I (mGluR1 and mGluR5) and group II receptors (mGluR2 and mGluR3) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	(RS)-MCPG (alpha-MCPG; 500 μM) blocks the TBS-induced shifts in EGABA in either juvenile or neonatal neurons ^[1] . Pretreatment with the low dose of (RS)-MCPG (25 nM; i.c.; daily; 5 days) significantly attenuates amphetamine-induced locomotor activity in 10-day-old male and female rats of Sprague-Dawley descent ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Front Cell Neurosci. 2019 Jun 25;13:276.

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REFERENCES

- [1]. Yang B et al. Regulation of GABA Equilibrium Potential by mGluRs in Rat Hippocampal CA1 Neurons. PLoS One, 2015 Sep 21, 10(9):e0138215.
- [2]. Fiona Yeuk-Lun Choi, et al. The effects of (RS)-MCPG on amphetamine-induced sensitization in neonatal rats.
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Caution: Product has not been fully validated for medical applications. For research use only.

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