Co 101244 hydrochloride

Cat. No.: HY-107706

CAS No.: 193356-17-1

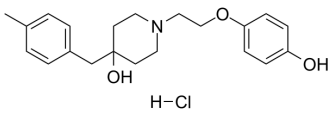
Molecular Formula: $C_{21}H_{28}ClNO_3$

Molecular Weight: 377.9

Target: iGluR

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (264.62 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6462 mL	13.2310 mL	26.4620 mL
	5 mM	0.5292 mL	2.6462 mL	5.2924 mL
	10 mM	0.2646 mL	1.3231 mL	2.6462 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (6.62 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.62 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.62 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Co 101244 (PD 174494) hydrochloride is a NR2B-containing NMDA receptor antagonist[1].

In Vitro

Co 101244 effectively reduces NMDA-evoked Ca^{2+} elevations while enhancing neuroprotection[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Co 101244 (0.1, 1 mg/kg s.c.) displayed antidyskinetic effects (67 and 71% reduction, respectively) while sparing levodopa motor benefit[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ruslan I Stanika, et al. Coupling diverse routes of calcium entry to mitochondrial dysfunction and glutamate excitotoxicity. Proc Natl Acad Sci U S A. 2009 Jun 16;106(24):9854-9.

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