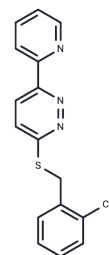


LDN-212320

Chemical Properties

CAS No. : 894002-50-7
Formula: C₁₇H₁₅N₃S
Molecular Weight: 293.39
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	LDN-212320 (OSU-0212320) is a glutamate transporter EAAT2 activator. It also enhances EAAT2 levels by > 6 fold at concentrations < 5 µM after 24 h.
Targets(IC50)	transporter
In vitro	LDN/OSU-0212320 enhanced EAAT2 protein levels and glutamate uptake function but did not affect EAAT1 or EAAT3 protein levels and it also increased EAAT2 protein levels in a dose-dependent (EC ₅₀ : 1.83 ± 0.27 µM) and time-dependent manner. LDN/OSU-0212320 treatment markedly prevented neuronal loss and degeneration, as assessed by MAP2 immunostaining [2].
In vivo	After LDN/OSU-0212320(a single i.p.; 40-mg/kg) treatment, EAAT2 protein levels and associated glutamate uptake increased by approximately 1.5- to 2-fold at 2 hours and by approximately 2- to 3-fold between 8 and 24 hours after injection. Even 72 hours after injection, an approximately 1.5-fold increase in EAAT2 protein levels could still be detected (data not shown). LDN/OSU-0212320-induced EAAT2 protein levels and glutamate uptake was dose-dependent [2].

Solubility Information

Solubility	DMSO: 16.67 mg/mL (56.81 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4084 mL	17.0422 mL	34.0843 mL
5 mM	0.6817 mL	3.4084 mL	6.8169 mL
10 mM	0.3408 mL	1.7042 mL	3.4084 mL
50 mM	0.0682 mL	0.3408 mL	0.6817 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Xing X, et al. Structure-activity relationship study of pyridazine derivatives as glutamate transporter EAAT2 activators. Bioorg Med Chem Lett. 2011 Oct 1;21(19):5774-7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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