

ALX-1393

## Chemical Properties

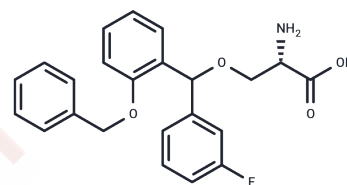
CAS No. : 949164-09-4

Formula: C23H22FNO4

Molecular Weight: 395.42

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	ALX-1393 is a selective GlyT2 inhibitor that effectively reduces neuronal action potential activity in a concentration-dependent manner and inhibits the activity of spontaneous networks by inducing glycinergic tetanic currents in the abdominal horn of the spinal cord. Antiinjurious effects on thermal, mechanical and chemical stimuli in rat models of acute pain.
Targets(IC50)	GlyT
In vivo	ALX1393 (i.c.v.; 25, 50, and 100 µg) suppresses the late-phase response in the formalin test in normal rats without affecting motor performance and demonstrates dose-dependent inhibition of mechanical and cold hyperalgesia. [1]

## Solubility Information

Solubility	DMSO: 11 mg/mL (27.82 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.529 mL	12.6448 mL	25.2896 mL
5 mM	0.5058 mL	2.529 mL	5.0579 mL
10 mM	0.2529 mL	1.2645 mL	2.529 mL
50 mM	0.0506 mL	0.2529 mL	0.5058 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- Takahashi Y, et al. Antinociceptive effect of intracerebroventricular administration of glycine transporter-2 inhibitor ALX1393 in rat models of inflammatory and neuropathic pain. *Pharmacol Biochem Behav.* 2015;130:46-52.
- Haranishi Y, et al. The antinociceptive effect of intrathecal administration of glycine transporter-2 inhibitor ALX1393 in a rat acute pain model. *Anesth Analg.* 2010;110(2):615-621.
- Hermanns H, et al. Differential effects of spinally applied glycine transporter inhibitors on nociception in a rat model of neuropathic pain. *Neurosci Lett.* 2008;445(3):214-219.

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