

# **Data Sheet**

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|--------------------|--|-------------------|
| Product Name:      | ALX-1393   |                   |
| Cat. No.:          | CS-0033998   |                   |
| CAS No.:           | 949164-09-4  | $\langle \rangle$ |
| Molecular Formula: | C <sub>23</sub> H <sub>22</sub> FNO <sub>4</sub>     |                   |
| Molecular Weight:  | 395.42   |                   |
| Target:            | GlyT   |                   |
| Pathway:           | Membrane Transporter/Ion Channel; Neuronal Signaling | , Ö               |
| Solubility:        | 10 mM in DMSO  |                   |
|                    |  | F                 |

## **BIOLOGICAL ACTIVITY:**

ALX-1393, a selective **GlyT2** inhibitor, has an antinociceptive effect on thermal, mechanical, and chemical stimulations in a rat acute pain model<sup>[1]</sup>. IC50 & Target:GlyT2<sup>[1]</sup> *In Vivo:* ALX1393 (i.c.v.; 25, 50, and 100 µg) in normal rats suppresses the late-phase response in the formalin test but does not affect motor performance. ALX1393 inhibits mechanical and cold hyperalgesia in a dose-dependent manner<sup>[2]</sup>.

## **References:**

[1]. 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 Feb 1;110(2):615-21.

[2]. 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 Mar;130:46-52.

#### **CAIndexNames:**

L-Serine, O-[(3-fluorophenyl)[2-(phenylmethoxy)phenyl]methyl]-

## SMILES:

N[C@@H](COC(C1=CC=CC(F)=C1)C2=CC=CC=C2OCC3=CC=CC3)C(O)=O

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

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