

**Product Name:** Org 24598 lithium salt

**Catalog No.:** 4035

**Batch No.:** 1

CAS Number: 722456-08-8

IUPAC Name: *N*-Methyl-*N*-[(3*R*)-3-phenyl-3-[4-(trifluoromethyl)phenoxy]propyl]-glycine lithium salt

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>19</sub>F<sub>3</sub>LiNO<sub>3</sub>

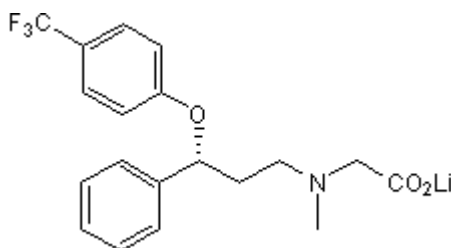
**Batch Molecular Weight:** 373.3

**Physical Appearance:** White solid

**Solubility:** water to 10 mM  
DMSO to 5 mM  
ethanol to 5 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.13 (Dichloromethane:Methanol [9:1])

**HPLC:** Shows 99.2% purity

**Chiral HPLC:** Shows 100% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Optical Rotation:** [α]<sub>D</sub> = -4.2 (Concentration = 1, Solvent = Methanol)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	61.13	5.13	3.75
Found	61.09	5.09	3.78

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**Description:**

Selective inhibitor of the glial glycine transporter (GlyT1) (pIC<sub>50</sub> values are 6.9, <4 and <3 for GlyT1, GABA transporter and Glyt2 respectively).

**Physical and Chemical Properties:**

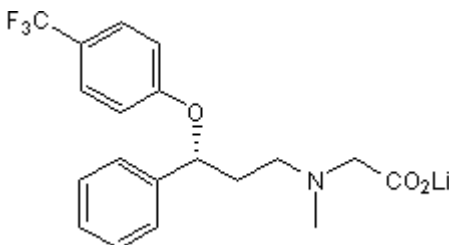
Batch Molecular Formula: C<sub>19</sub>H<sub>19</sub>F<sub>3</sub>LiNO<sub>3</sub>

Batch Molecular Weight: 373.3

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 10 mM

DMSO to 5 mM

ethanol to 5 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Bradaia et al** (2004) Role of glial and neuronal glycine transporters in the control of glycinergic and glutamatergic synaptic transmission in lamina X of the rat spinal cord. *J.Physiol.* **559** 169. PMID: 15235081.

**Beato** (2008) The time course of transmitter at glycinergic synapses onto motoneurons. *J.Neurosci.* **28** 7412. PMID: 18632945.

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