

Product Name: Org 24598

Catalog No.: 4447

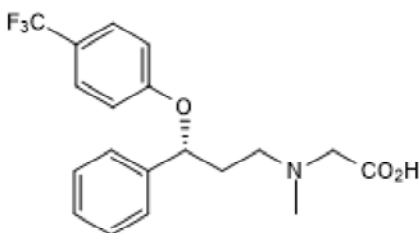
Batch No.: 2

CAS Number: 372198-97-5

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₀F₃NO₃
Batch Molecular Weight: 367.36
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.07 (Dichloromethane:Methanol [9:1])
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -3 (Concentration = 1, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.12	5.49	3.81
Found	62.13	5.37	3.82

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Org 24598 is a potent and selective inhibitor of the glial glycine transporter GlyT1b (IC₅₀ = 6.9 nM). Displays negligible activity at GlyT-2, adrenoreceptors, dopamine, 5HT receptors and noradrenaline, dopamine, 5HT and GABA transporters (pIC₅₀ < 4). Active in vivo.

Physical and Chemical Properties:

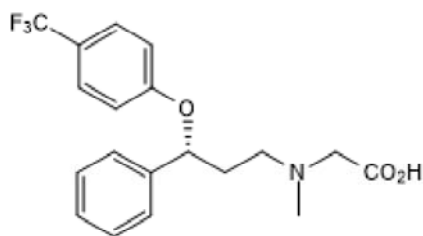
Batch Molecular Formula: C₁₉H₂₀F₃NO₃

Batch Molecular Weight: 367.36

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Chue *et al* (2013) Glycine reuptake inhibition as a new therapeutic approach in schizophrenia: focus on the glycine transporter 1 (GlyT1). *Curr.Pharm.Des.* **19** 1311. PMID: 23194655.

Williams *et al* (2003) Development of a scintillation proximity assay for analysis of Na⁺/Cl⁻ -dependent neurotransmitter transporter activity. *Anal. Biochem.* **321** 31. PMID: 12963052.

Brown *et al* (2001) Discovery and SAR of org 24598-a selective glycine uptake inhibitor. *Bioorg.Med.Chem.Lett.* **11** 2007. PMID: 11454468.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 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.

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