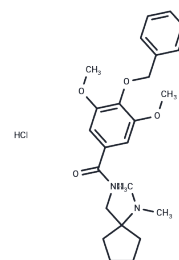


Org 25543 hydrochloride

Chemical Properties

CAS No. :	495076-64-7
Formula:	C ₂₄ H ₃₃ ClN ₂ O ₄
Molecular Weight:	448.983
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	Org 25543 hydrochloride is a potent and selective glycine transporter type 2 (GlyT2) inhibitor (IC ₅₀ = 16 nM for hGlyT2). Displays no activity at GlyT1 or 56 other common biological targets (≥ 100 μM), in a glycine uptake assay in CHO cells.
Targets(IC ₅₀)	GlyT

Solubility Information

Solubility	H ₂ O: 8 mg/mL (17.82 mM), Sonication is recommended. DMSO: 60 mg/mL (133.64 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.23 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2273 mL	11.1364 mL	22.2727 mL
5 mM	0.4455 mL	2.2273 mL	4.4545 mL
10 mM	0.2227 mL	1.1136 mL	2.2273 mL
50 mM	0.0445 mL	0.2227 mL	0.4455 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

W L Caulfield, et al. The first potent and selective inhibitors of the glycine transporter type 2. *J Med Chem* . 2001 Aug 16;44(17):2679-82.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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