

GT 949

Chemical Properties

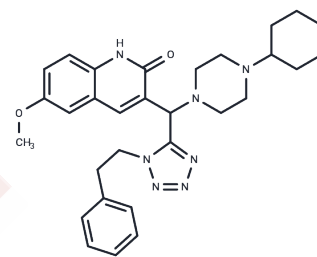
CAS No. : 460330-27-2

Formula: C30H37N7O2

Molecular Weight: 527.66

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	GT 949 is a selective excitatory positive allosteric modulator of amino acid transporter-2 (EAAT2) with an EC50 of 0.26 nM.
Targets(IC50)	transporter
In vitro	GT 949 displays selectivity to EAAT2 and has no effect on glutamate activity mediated by EAAT1 or EAAT3. GT 949 improves glutamate transport (EC50 = 0.26 nM) and increases glutamate transport in a non-competitive manner with an increase in Vmax of about 47% in EAAT2-transfected cells[1].

Solubility Information

Solubility	DMSO: 55 mg/mL (104.23 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: 2 mg/mL (3.79 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	1.8952 mL	9.4758 mL	18.9516 mL
5 mM	0.379 mL	1.8952 mL	3.7903 mL
10 mM	0.1895 mL	0.9476 mL	1.8952 mL
50 mM	0.0379 mL	0.1895 mL	0.379 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

Kortagere S, et al. Identification of Novel Allosteric Modulators of Glutamate Transporter EAAT2. ACS Chem Neurosci. 2018 Mar 21;9(3):522-534.

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