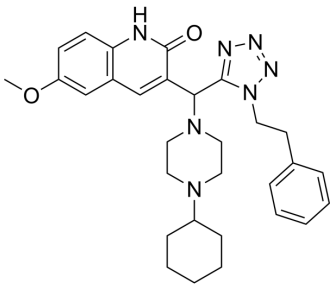
GT 949

Cat. No.:	HY-114381
CAS No.:	460330-27-2
Molecular Formula:	$C_{30}H_{37}N_7O_2$
Molecular Weight:	527.66
Target:	EAAT
Pathway:	Membrane Transporter/Ion Channel
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (94.76 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.8952 mL	9.4758 mL	18.9516 mL
	5 mM	0.3790 mL	1.8952 mL	3.7903 mL
	10 mM	0.1895 mL	0.9476 mL	1.8952 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (4.74 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.74 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.74 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	GT 949 is a selective excitatory amino acid transporter-2 (EAAT2) positive allosteric modulator with an EC_{50} of 0.26 nM[1].
IC_{50} & Target	EAAT2
In Vitro	GT 949 (GT949) enhances glutamate transport with an EC50 of 0.26 ± 0.03 nM. GT 949 also demonstrates selectivity to EAAT2 and has no effect on glutamate activity mediated by EAAT1 or EAAT3[1]. GT 949 is also tested for its effect on glutamate uptake kinetics in EAAT2-transfected cells. GT 949 enhances glutamate

transport in a noncompetitive fashion, with increase in V_{max} of about 47%[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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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