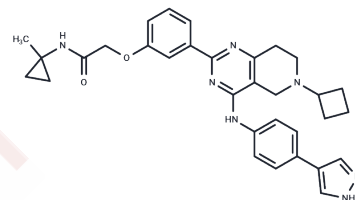


GLUT inhibitor-1

Chemical Properties

CAS No. :	2421141-40-2
Formula:	C32H35N7O2
Molecular Weight:	549.67
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	GLUT inhibitor-1 is an orally active GLUT inhibitor with IC50 s of 242 nM and 179 nM for GLUT1 and GLUT3. GLUT inhibitor-1 can be used in studies about cancers and autoimmune diseases.
Targets(IC50)	transporter
In vivo	GLUT inhibitor-1 exhibits good oral pharmacokinetic parameters in mice and rats with oral Cmax values of 2525 and 1675 ng/mL, AUCs of 5890 and 6813 ng/mL, CLs of 40 and 37 mL/min/kg, Vdss of 1.70 and 4.51 L/Kg, t1/2s of 0.785 and 2.59h and Fs of 45.4% and 49.4%[1].

Solubility Information

Solubility	DMSO: 90 mg/mL (163.73 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8193 mL	9.0964 mL	18.1927 mL
5 mM	0.3639 mL	1.8193 mL	3.6385 mL
10 mM	0.1819 mL	0.9096 mL	1.8193 mL
50 mM	0.0364 mL	0.1819 mL	0.3639 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

Liu KG, et al. Discovery and Optimization of Glucose Uptake Inhibitors. J Med Chem. 2020;63(10):5201-5211.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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