
Product Data Sheet

Product Name: GLUT inhibitor-1

Cat. No.: GC64876

Chemical Properties

Cas. No. 2421141-40-2

Formula C₃₂H₃₅N₇O₂

M.Wt 549.67

Solubility DMSO : 100 mg/mL (181.93 mM; ultrasonic and warming and heat to 60°C)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

GLUT inhibitor-1 is a potent and orally active inhibitor of glucose transporters, targeting both GLUT1 and GLUT3, with IC₅₀s of 242 nM and 179 nM, respectively. GLUT inhibitor-1 has the potential for the reaesrch of cancers and autoimmune diseases[1].

Summary of the pharmacokinetic parameters of GLUT inhibitor-1 (compound 15b; 30 mg/kg) in mouse and rat[1]. Parameter Mouse Rat oral C_{max} (ng/mL)25251675 oral AUC (ng/mL)58906813 CL (mL/min/kg)4037 V_{dss} (L/Kg)1.70 4.51 t_{1/2} (h)0.7852.59 F

(%)45.449.4 B/pb0.05b: Solubility is determined in PBS buffer solutions.

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

Caution: Product has not been fully validated for medical applications. For research use only.

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