Data Sheet (Cat.No.T67898)

TargetMol

α-Glucosidase-IN-22

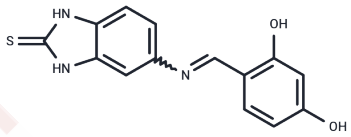
Chemical Properties

CAS No. : 2870693-28-8

Formula: C14H11N3O2S

Molecular Weight: 285.32

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	α-Glucosidase-IN-22 is a selective inhibitor of α-glucosidase (IC50=0.64 μM). α-Glucosidase-IN-22 has antidiabetic activity and has potential in type 2 diabetes (T2DM) studies.
Targets(IC50)	Glucosidase,glycosidase

Solubility Information

Solubility	DMSO: 11 mg/mL (38.55 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5048 mL	17.5242 mL	35.0484 mL
5 mM	0.701 mL	3.5048 mL	7.0097 mL
10 mM	0.3505 mL	1.7524 mL	3.5048 mL
50 mM	0.0701 mL	0.3505 mL	0.701 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

Sardar Ali, et al. Novel 5-(Arylideneamino)-1 H-Benzo[d]imidazole-2-thiols as Potent Anti-Diabetic Agents: Synthesis, In Vitro α-Glucosidase Inhibition, and Molecular Docking Studies. ACS Omega. 2022 Nov 23;7(48):43468-43479.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481