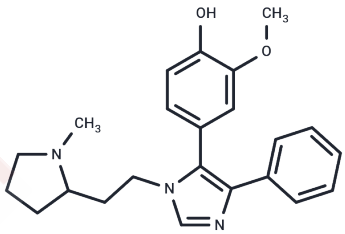
Data Sheet (Cat.No.T38674)

TargetMol

yGsy2p-IN-H23

Chemical Properties



CAS No. : 1269190-98-8

Formula: C23H27N3O2

Molecular Weight: 377.488

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	yGsy2p-IN-H23 is a potent, first-in-class inhibitor specifically designed to target yeast glycogen synthase 2 (yGsy2p). It demonstrates an IC50 value of 875 μM for human glycogen synthase 1 (hGYS1). This compound binds precisely within the uridine diphosphate glucose (UDPG) binding pocket of yGsy2p. Its utilization in research primarily focuses on studying glycogen storage diseases (GSDs).
Targets(IC50)	Others,GSK-3
In vitro	yGsy2p-IN-H23 (compound H23) has IC 50 values against either hGYS1Δ634S8,11N or wild-type hGYS1 were 161 μM and 875 μM, respectively. yGsy2p-IN-H23 exhibits IC 50 values of 280 μM and 263 μM in the absence and presence of G6P for yGsy2p against yeast and human glycogen synthase (GS), respectively. yGsy2p-IN-H23 is not in direct competition with G6P[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6491 mL	13.2454 mL	26.4908 mL
5 mM	0.5298 mL	2.6491 mL	5.2982 mL
10 mM	0.2649 mL	1.3245 mL	2.6491 mL
50 mM	0.053 mL	0.2649 mL	0.5298 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

Buyun Tang, et al. Discovery and Development of Small-Molecule Inhibitors of Glycogen Synthase. J Med Chem. 2020 Apr 9;63(7):3538-3551.

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