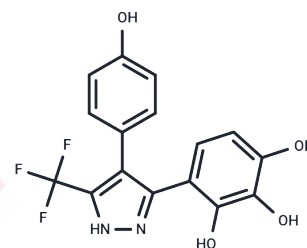


## yGsy2p-IN-1

## Chemical Properties

CAS No. :	2415003-97-1
Formula:	C <sub>16</sub> H <sub>11</sub> F <sub>3</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	352.26
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-1 is a potent inhibitor of yeast glycogen synthase 2 (yGsy2p) and human glycogen synthase 1 (hGYS1). Additionally, yGsy2p-IN-H23, a pyrazole inhibitor, is utilized in the treatment of glycogen storage diseases (GSDs).
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 62.5 mg/mL (177.43 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.68 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8388 mL	14.1941 mL	28.3881 mL
5 mM	0.5678 mL	2.8388 mL	5.6776 mL
10 mM	0.2839 mL	1.4194 mL	2.8388 mL
50 mM	0.0568 mL	0.2839 mL	0.5678 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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