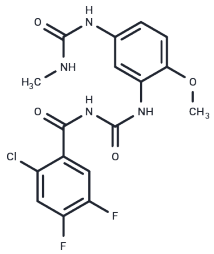
Data Sheet (Cat.No.T37577)

TargetMol

Glycogen phosphorylase-IN-1

Chemical Properties



CAS No. : 648926-15-2

Formula: C17H15ClF2N4O4

Molecular Weight: 412.78

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	Glycogen phosphorylase-IN-1 is a selective and potent inhibitor of human hepatic glycogen phosphorylase (hlGPa) with inhibitory effects on hlGPa activity and on hepatocyte glycogen-derived glucose production, and can be used in the study of type 2 diabetes mellitus and canine lupus.
Targets(IC50)	Others,Phosphorylase
In vivo	In the glucagon-stimulated hyperglycemia model in Wistar rats, Glycogen phosphorylase-IN-1 (5 mg/kg; administered via intravenous injection, single dose) was able to reduce blood glucose levels[1].

Solubility Information

Solubility	DMF: 2 mg/mL (4.85 mM),Sonication is recommended. DMSO: 2 mg/mL (4.85 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4226 mL	12.113 mL	24.226 mL
5 mM	0.4845 mL	2.4226 mL	4.8452 mL
10 mM	0.2423 mL	1.2113 mL	2.4226 mL
50 mM	0.0485 mL	0.2423 mL	0.4845 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

Klabunde T, et al., Acyl ureas as human liver glycogen phosphorylase inhibitors for the treatment of type 2 diabetes. J Med Chem. 2005 Oct 6;48(20):6178-93.

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