

α -glucosidase/PTP1B-IN-1

Chemical Properties

CAS No. :

Formula: C₂₃H₂₀Cl₂O₅

Molecular Weight: 447.31

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/PTP1B-IN-1 (compound 8a) is an effective inhibitor of both α -glucosidase and PTP1B, with IC ₅₀ values of 66.3 μ M and 47.0 μ M, respectively. It also exhibits strong inhibitory activity against α -amylase, having an IC ₅₀ of 30.62 μ M. This compound is capable of binding to the active sites of α -glucosidase and PTP1B. α -glucosidase/PTP1B-IN-1 holds potential for reducing postprandial blood glucose levels and may be useful in managing type 2 diabetes.
Targets(IC ₅₀)	Glucosidase,Amylase,glycosidase,Phosphatase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2356 mL	11.1779 mL	22.3559 mL
5 mM	0.4471 mL	2.2356 mL	4.4712 mL
10 mM	0.2236 mL	1.1178 mL	2.2356 mL
50 mM	0.0447 mL	0.2236 mL	0.4471 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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