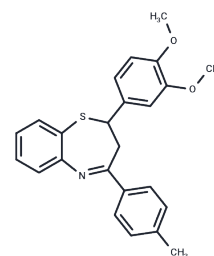


α -Glucosidase-IN-21

Chemical Properties

CAS No. :	321686-01-5
Formula:	C ₂₄ H ₂₃ NO ₂ S
Molecular Weight:	389.51
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-21 (Compound 2B) is a highly potent, orally bioavailable α -glucosidase inhibitor with an IC ₅₀ value of 2.62 μ M, demonstrating remarkable anti-diabetic properties [1].
Targets(IC ₅₀)	Others, Glucosidase, glycosidase
In vivo	α -Glucosidase-IN-21 (Compound 2B), administered orally at 10 and 20 mg/kg daily for four weeks, demonstrates anti-diabetic efficacy in male Wistar albino rats (170-200 g) with Streptozocin-induced diabetes. This compound significantly reduces serum glucose levels post-glucose administration (3 g/kg, orally) and shows no mortality in mice at 2000 mg/kg over two weeks. In addition, α -Glucosidase-IN-21 effectively decreases blood glucose levels, counteracts Streptozocin-induced weight loss, and exhibits antihyperlipidemic properties by notably lowering serum biomarkers in the diabetic rat model.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5673 mL	12.8366 mL	25.6733 mL
5 mM	0.5135 mL	2.5673 mL	5.1347 mL
10 mM	0.2567 mL	1.2837 mL	2.5673 mL
50 mM	0.0513 mL	0.2567 mL	0.5135 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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