

α -Glucosidase-IN-18

Chemical Properties

CAS No. :

Formula: C₂₃H₁₉N₂O₅

Molecular Weight: 373.47

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-18 (7B) is an orally active α -glucosidase inhibitor with an IC ₅₀ value of 3.96 μ M, exhibiting antidiabetic properties [1].
Targets(IC50)	Others,Glucosidase,glycosidase
In vivo	In a study, α -Glucosidase-IN-18 (7B) administered orally at doses of 10 or 20 mg/kg exhibited antidiabetic properties by significantly lowering blood glucose levels from 392.16 mg/dL in diabetic controls to 112.97 mg/dL at the 20 mg/kg dose after 28 days in male Wistar albino rats with streptozotocin-induced diabetes. This compound also mitigated diabetes-induced weight loss. Additionally, it demonstrated anti-hyperlipidemic effects, reducing total cholesterol levels from 226.03 mg/dL to 136.4 mg/dL, LDL from 183.3 mg/dL to 114.18 mg/dL, and triglycerides from 189.35 mg/dL to 118.61 mg/dL. Furthermore, α -Glucosidase-IN-18 (7B) decreased ALP, SGPT, and SGOT levels, improved renal function by reducing serum creatinine from 3.01 mg/dL to as low as 0.79 mg/dL, and increased insulin levels from 0.369 mg/dL to 0.639 mg/dL, indicating a potential therapeutic effect on various biochemical parameters associated with diabetes [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6776 mL	13.388 mL	26.7759 mL
5 mM	0.5355 mL	2.6776 mL	5.3552 mL
10 mM	0.2678 mL	1.3388 mL	2.6776 mL
50 mM	0.0536 mL	0.2678 mL	0.5355 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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