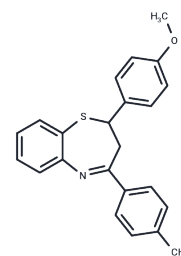


α -Glucosidase-IN-20

Chemical Properties

CAS No. :	420809-56-9
Formula:	C ₂₃ H ₂₁ NOS
Molecular Weight:	359.48
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	α -Glucosidase-IN-20 (Compound 3B) is a highly effective and orally active inhibitor of α -glucosidase. It exhibits potent anti-diabetic properties, as evidenced by its IC ₅₀ value of 3.01 μ M [1].
In vivo	α -Glucosidase-IN-20 (Compound 3B) at dosages of 10 and 20 mg/kg administered orally once daily for four weeks demonstrates antidiabetic activity in streptozotocin-induced diabetic male Wistar albino rats (170–200 g), effectively reducing blood glucose levels and counteracting streptozotocin-induced body weight loss. Additionally, this compound at the same dosages significantly lowers serum glucose levels in rats after oral glucose administration (3 g/kg), with no mortality observed in mice at a higher dosage of 2000 mg/kg administered daily for two weeks. Furthermore, α -Glucosidase-IN-20 exhibits antihyperlipidemic effects, markedly decreasing levels of serum biomarkers associated with streptozotocin-induced diabetes.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7818 mL	13.909 mL	27.818 mL
5 mM	0.5564 mL	2.7818 mL	5.5636 mL
10 mM	0.2782 mL	1.3909 mL	2.7818 mL
50 mM	0.0556 mL	0.2782 mL	0.5564 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.

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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