# Data Sheet (Cat.No.T61761)

C24H23NO2S



### α-Glucosidase-IN-21

#### **Chemical Properties**

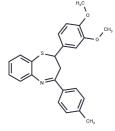
Formula:

CAS No.: 321686-01-5

Molecular Weight: 389.51

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## **Biological Description**

Description	$\alpha$ -Glucosidase-IN-21 (Compound 2B) is a highly potent and orally bioavailable inhibitor of $\alpha$ -glucosidase. With an impressive IC50 value of 2.62 $\mu$ M, this compound exhibits remarkable anti-diabetic properties [1].
In vivo	α-Glucosidase-IN-21 (Compound 2B), administered orally at dosages of 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 a higher dosage of 2000 mg/kg over two weeks. Moreover, 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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