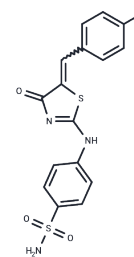


α -Glucosidase-IN-63

Chemical Properties

CAS No. :	2375866-82-1
Formula:	C ₁₆ H ₁₂ FN ₃ O ₃ S ₂
Molecular Weight:	377.41
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-63 (Compound 4d) serves as an α -Glucosidase inhibitor with an IC ₅₀ value of 0.44 μ M. Additionally, it exhibits inhibitory activity against hCA II, demonstrating a K _i of 7.0 nM. The compound is also effective when administered orally. [1]
Targets(IC50)	Carbonic Anhydrase, Glucosidase, glycosidase
In vitro	α -Glucosidase-IN-63 inhibits human carbonic anhydrase (hCA) with K _i values of 7.0 nM for hCA II, 19.9 nM for hCA XII, and 64.1 nM for hCA IX [1].
In vivo	α -Glucosidase-IN-63 (p.o.) exhibits a notable hypoglycemic effect in streptozotocin-induced diabetic mice, significantly improving glucose tolerance and outperforming the standard drug Acarbose [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6496 mL	13.2482 mL	26.4964 mL
5 mM	0.5299 mL	2.6496 mL	5.2993 mL
10 mM	0.265 mL	1.3248 mL	2.6496 mL
50 mM	0.053 mL	0.265 mL	0.5299 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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