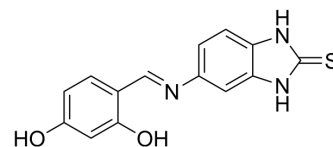


α-Glucosidase-IN-22

Cat. No.:	HY-152158		
CAS No.:	2870693-28-8		
Molecular Formula:	C ₁₄ H ₁₁ N ₃ O ₂ S		
Molecular Weight:	285.32		
Target:	Glucosidase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (438.10 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.5048 mL	17.5242 mL	35.0484 mL
5 mM	0.7010 mL	3.5048 mL	7.0097 mL
10 mM	0.3505 mL	1.7524 mL	3.5048 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

α-Glucosidase-IN-22 (compound 7i), a benzimidazole, is a potent α-glucosidase inhibitor with an IC₅₀ of 0.64 μM. α-Glucosidase-IN-22 is a potent anti-diabetic agent and has the potential for type 2 diabetes mellitus (T2DM) research^[1].

REFERENCES

[1]. Sardar Ali, et al. Novel 5-(Arylideneamino)-1 H-Benzo[d]imidazole-2-thiols as Potent Anti-Diabetic Agents: Synthesis, In Vitro α-Glucosidase Inhibition, and Molecular Docking Studies. ACS Omega. 2022 Nov 23;7(48):43468-43479.

Caution: Product has not been fully validated for medical applications. For research use only.

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