α-Glucosidase-IN-18

MedChemExpress

Cat. No.:	HY-151142	
CAS No.:	2820424-81-3	
Molecular Formula:	C ₂₃ H ₁₉ NO ₂ S	
Molecular Weight:	373.47	
Target:	Glucosidase	
Pathway:	Metabolic Enzyme/Protease	\checkmark
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

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Description	α -Glucosidase-IN-18 (7B) is an orally active α-glucosidase inhibitor with an IC ₅₀ value of 3.96 µM. α-Glucosidase-IN-18 has antidiabetic activity ^[1] .	
In Vivo	 α-Glucosidase-IN-18 (7B) (p.o., 10 or 20 mg/kg) has antidiabetic activity and significantly reduces blood glucose levels, from 392.16 mg/dL of diabetic control to 112.97 mg/dL at a concentration of 20 mg/kg after 28 days, while effectively slowing weight loss due to diabetes in male Wistar albino rats with streptozotocin-induced diabetes^[1]. α-Glucosidase-IN-18 (7B) (p.o., 10 or 20 mg/kg) had an anti-hyperlipidemic effect with total CH levels from 226.03 mg/dL in the diabetic control to 136.4 mg/dL, LDL levels from 183.3 mg/dL to 114.18 mg/dL and TG levels from 189.35 mg/dL to 118.61 mg/dL in male Wistar albino rats with streptozotocin-induced diabetes^[1]. α-Glucosidase-IN-18 (7B) decreases ALP levels from 3.01 mg/dL to 0.85 mg/dL and 0.79 mg/dL, SGPT levels from 59.43 mg/dL to 27.07 mg/dL and 23.91 mg/dL, SGOT levels from 49.67 mg/dL to 26.71 mg/dL and 23.08 mg/dL, serum creatinine from 3.01 mg/dL to 0.85 mg/dL and 0.639 mg/dL, respectively at doses of 10 and 20 mg/kg in male Wistar albino rats with streptozotocin-induced diabetes^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. 	

REFERENCES

[1]. Rabia Mehmood, et al. Synthesis of Novel 2,3-Dihydro-1,5-Benzothiazepines as α-Glucosidase Inhibitors: In Vitro, In Vivo, Kinetic, SAR, Molecular Docking, and QSAR Studies. ACS Omega 2022, August 17, 2022.

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

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