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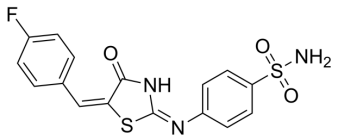
α-Glucosidase-IN-63

Cat. No.:	HY-161522
CAS No.:	2375866-82-1
Molecular Formula:	$C_{16}H_{12}FN_3O_3S_2$
Molecular Weight:	377.41
Target:	Glucosidase; Carbonic Anhydrase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	α-Glucosidase-IN-63 (Compound 4d) is an inhibitor of α-Glucosidase (IC_{50}=0.44 μM). α-Glucosidase-IN-63 inhibits hCA II with an activity of K_i= 7.0 nM. α-Glucosidase-IN-63 is orally effective.[1].		
IC_{50} & Target	hCA II 7.0 nM (Ki)	hCA IX 64.1 nM (Ki)	hCA XII 19.9 nM (Ki)
In Vitro	α-Glucosidase-IN-63 exhibits inhibitory abilities against human carbonic anhydrase (hCA) with K_i values of 7.0 nM (hCA II), 19.9 nM (hCA XII), and 64.1 nM (hCA IX)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	α-Glucosidase-IN-63 (p.o.) shows significant hypoglycemic effect in Streptozocin (HY-13753)-induced diabetic mice, with significant recovery of glucose tolerance, and is superior to standard drug Acarbose (HY-B0089)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Gamal MA, et al. Probing benzenesulfonamide-thiazolidinone hybrids as multitarget directed ligands for efficient control of type 2 diabetes mellitus through targeting the enzymes: α-glucosidase and carbonic anhydrase II. Eur J Med Chem. 2024 May 5;271:116434.

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