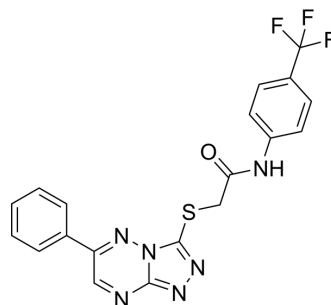


α -Amylase/ α -Glucosidase-IN-12

Cat. No.:	HY-163439
Molecular Formula:	C ₁₉ H ₁₃ F ₃ N ₆ OS
Molecular Weight:	430.41
Target:	Amylases; Glucosidase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	α -Amylase/ α -Glucosidase-IN-12 (compound 10k) is a dual inhibitor targeting α -glucosidase and α -amylase with IC ₅₀ of 34.52 nM and 24.62 nM, respectively. α -Amylase/ α -Glucosidase-IN-12 is an inhibitor designed based on triazolo[4,3-b][1,2,4]triazine and has the potential to be used in diabetes research. ^{[1][1]}
IC₅₀ & Target	IC ₅₀ : 34.52 nM (α -Glucosidase), 24.62 nM (α -Amylase) ^[1]
In Vitro	The K _i value of α -Amylase/ α -Glucosidase-IN-12 and α -glucosidase is 33.85 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Seyfi S, et al. Synthesis, biological activities, and molecular docking studies of triazolo[4,3-b]triazine derivatives as a novel class of α -glucosidase and α -amylase inhibitors. Arch Pharm (Weinheim). 2024 Mar 19:e2300628.

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

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