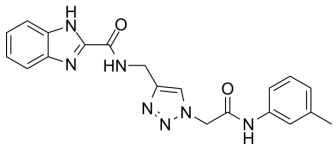
α-Glucosidase-IN-30

Cat. No.:	HY-155105
CAS No.:	2966859-35-6
Molecular Formula:	$C_{20}H_{19}N_7O_2$
Molecular Weight:	389.41
Target:	Glucosidase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	α-Glucosidase-IN-30 (compound 8c) is a potent, orally active, competitive inhibitor against α-glucosidase, with K_i of 40.0 μM and IC_{50} value of 49.0 μM. α-Glucosidase-IN-30 is non-cytotoxic against the cancer and normal cell lines MCF-7 and HDF, and can be used for Type 2 diabetes study[1].
IC_{50} & Target	49.0 μM (α-glucosidase)
In Vitro	α-Glucosidase-IN-30 (compound 8c) shows no cytotoxic activity against the cancer and normal cell lines MCF-7 and HDF (IC_{50} > 200 μM), respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yousefnejad F, et al. Design, synthesis, in vitro, and in silico evaluations of benzo[d]imidazole-amide-1,2,3-triazole-N-arylacetamide hybrids as new antidiabetic agents targeting α-glucosidase. Sci Rep. 2023;13(1):12397.

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