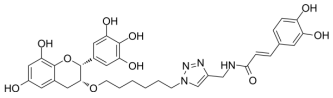
HPA-IN-2

Cat. No.:	HY-143269
CAS No.:	2885971-91-3
Molecular Formula:	$C_{33}H_{36}N_4O_{10}$
Molecular Weight:	648.66
Target:	Amylases; Glucosidase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HPA-IN-2 (Compound 2a-1) is a potent and selective human pancreatic α-amylase (HPA) inhibitor with IC_{50} values of 8.2 μM and 450.7 μM against HPA and α-glucosidase, respectively[1].
IC_{50} & Target	IC_{50}: 8.2 μM (HPA), 450.7 μM (α-glucosidase)[1]
In Vitro	HPA-IN-2 (Compound 2a-1) has four hydrogen bonds interacting with HPA[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Chen W, et al. Design and synthesis of epigallocatechin (EGC) analogs selective to inhibit α-amylase over α-glucosidases via the incorporation of caffeine acid and its derivatives. Bioorg Chem. 2022 Feb;119:105515.

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