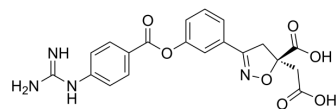


Human enteropeptidase-IN-1

Cat. No.:	HY-147927
CAS No.:	1802891-20-8
Molecular Formula:	C ₂₀ H ₁₈ N ₄ O ₇
Molecular Weight:	426.38
Target:	Enteropeptidase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Human enteropeptidase-IN-1 (compound 6b) is a highly potent, orally active and low systemic exposure enteropeptidase inhibitor. Human enteropeptidase-IN-1 boosts the increase in fecal protein output, and exhibits potent body weight loss in diet-induced obese (DIO) rat model. Human enteropeptidase-IN-1 can be used for anti-obesity research ^[1] .
IC₅₀ & Target	IC ₅₀ (initial): 20 nM (enteropeptidase) ^[1] IC ₅₀ (app): 1.2 nM (enteropeptidase) ^[1]
In Vitro	Human enteropeptidase-IN-1 (compound 6b) has inhibitory activity against enteropeptidase with IC ₅₀ (initial)* of 20 nM and IC ₅₀ (app)** of 1.2 nM ^[1] . (*IC ₅₀ (initial) refers to the inhibitory activity of human enteropeptidase after 6 min of incubation with the enzyme, substrate, and compound.) (**IC ₅₀ (app) refers to the apparent IC ₅₀ value after 120 min of incubation with the enzyme, substrate, and compound.) MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ikeda Z, et al. Design, Synthesis, and Biological Evaluation of a Novel Series of 4-Guanidinobenzoate Derivatives as Enteropeptidase Inhibitors with Low Systemic Exposure for the Treatment of Obesity. *J Med Chem.* 2022 Jun 23;65(12):8456-8477.

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

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