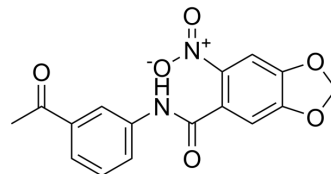


MPO-IN-6

Cat. No.:	HY-163332
Molecular Formula:	C ₁₆ H ₁₂ N ₂ O ₆
Molecular Weight:	328.28
Target:	Glucosidase; Dipeptidyl Peptidase; Glutathione Peroxidase
Pathway:	Metabolic Enzyme/Protease; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MPO-IN-6 (compound ADC) is an electrophile with good antioxidant and anti-inflammatory properties. MPO-IN-6 is a myeloperoxidase (MPO), dipeptidyl peptidase-4 (DPP-4), and α -glucosidase (α -GD) inhibitor with IC ₅₀ s of 10 μ M, 31.02 μ M, and 46.05 μ M, respectively. MPO-IN-6 is a potential cardiovascular preventive agent ^[1] .		
IC₅₀ & Target	Myeloperoxidase 10 μ M (IC ₅₀)	DPP-4 31.02 μ M (IC ₅₀)	α -Glucosidase 46.05 μ M (IC ₅₀)
In Vitro	From DPPH and ABTS ⁺ scavenging assay results, the corresponding IC ₅₀ values for MPO-IN-6 (compound ADC) are 41.04 μ M and 66.13 μ M, respectively ^[1] . At a concentration of 10 mM, MPO-IN-6 (compound ADC) demonstrates 35% α -glucosidase (α -GD) inhibition, and as the concentration increased, the activity is found to increase by 81% ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Reshma Rajan, et al. Synthesis, Structural Elucidation, In Silico and In Vitro Studies of New Class of Methylenedioxyphenyl-Based Amide Derivatives as Potential Myeloperoxidase Inhibitors for Cardiovascular Protection. ACS Omega. 2024 Feb 7;9(7):7850-7868.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA