

MPO-IN-6

Chemical Properties

CAS No. :

Formula: C16H12N2O6

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	MPO-IN-6 (compound ADC) is an electrophilic agent with excellent antioxidant and anti-inflammatory properties. It acts as an inhibitor of myeloperoxidase (MPO), dipeptidyl peptidase-4 (DPP-4), and α -glucosidase (α -GD), with IC ₅₀ values of 10 μ M, 31.02 μ M, and 46.05 μ M, respectively. MPO-IN-6 may serve as a potential cardiovascular protective agent.
Targets(IC50)	Proteasome, Glutathione Peroxidase, glycosidase
In vitro	MPO-IN-6 (compound ADC) exhibits IC ₅₀ values of 41.04 μ M and 66.13 μ M in DPPH and ABTS ^{•+} scavenging assays, respectively. At a concentration of 10 mM, MPO-IN-6 (compound ADC) shows 35% inhibition of α -glucosidase (α -GD), with activity increasing to 81% at higher concentrations.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286

E_mail: info@targetmol.com

Address: 34 Washington Street, Wellesley Hills, MA 02481