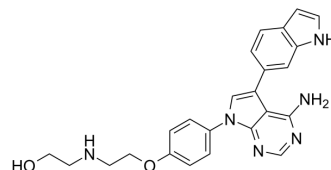


MPO-IN-5

Cat. No.:	HY-147691
CAS No.:	2476764-11-9
Molecular Formula:	C ₂₄ H ₂₄ N ₆ O ₂
Molecular Weight:	428.49
Target:	Glutathione Peroxidase; Potassium Channel
Pathway:	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MPO-IN-5 (compound 1) is a potent, irreversible MPO (myeloperoxidase) inhibitor. MPO-IN-5 inhibits MPO peroxidation and hERG binding, with IC ₅₀ values of 0.22 and 2.8 μM, respectively. MPO-IN-5 shows rapid kinetics of inhibition, with enzyme inactivation rate (k _{inact} /K _i) of 23000 M ⁻¹ s ⁻¹ [1].
IC ₅₀ & Target	IC ₅₀ : 0.22 μM (MPO peroxidation), 2.8 μM (hERG binding), 30 μM (TPO)[1]

REFERENCES

[1]. Patnaik A, et al. Discovery of a novel indole pharmacophore for the irreversible inhibition of myeloperoxidase (MPO). *Bioorg Med Chem*. 2020 Jun 15;28(12):115548.

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

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