DHFR-IN-1

Cat. No.:	HY-143236	
CAS No.:	2757991-65-2	A H
Molecular Formula:	$C_{22}H_{22}N_{6}O_{4}S_{2}$	
Molecular Weight:	498.58	
Target:	Bacterial; Fungal	S N
Pathway:	Anti-infection	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	° OH

BIOLOGICAL ACTIV	ТТҮ
Description	DHFR-IN-1 (compound 12) is a potent and selective DHFR (dihydrofolate reductase)inhibitor, with an IC ₅₀ of 40.71 nM. DHFR- IN-1 exhibits promising antibacterial activity against gram-positive and gram-negative bacteria. DHFR-IN-1 exhibits moderate antifungal activities. DHFR-IN-1 exhibits a high synergistic effect with Levofloxacin (HY-B0330), where the FIC (fractional inhibitory concentration index) value is 0.249 ^[1] .
IC ₅₀ & Target	IC ₅₀ : 40.71 ± 1.86 nM (DHFR) ^[1]

REFERENCES

[1]. Alzahrani AY, et al. Development of novel indolin-2-one derivative incorporating thiazole moiety as DHFR and quorum sensing inhibitors: Synthesis, antimicrobial, and antibiofilm activities with molecular modelling study. Bioorg Chem. 2022 Feb;119:105571.

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

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Product Data Sheet



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