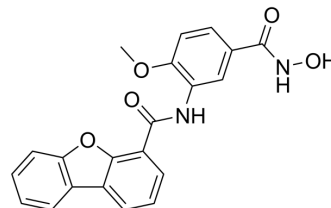


HDAC8-IN-2

Cat. No.:	HY-144098
CAS No.:	2824131-20-4
Molecular Formula:	C ₂₁ H ₁₆ N ₂ O ₅
Molecular Weight:	376
Target:	HDAC; Parasite
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HDAC8-IN-2 (compound 5o) is a potent HDAC8 inhibitor, with IC ₅₀ values of 0.27 and 0.32 μM for smHDAC8 (Schistosoma mansoni histone deacetylase 8) and hHDAC8, respectively. HDAC8-IN-2 shows significant killing of the schistosome larvae. HDAC8-IN-2 markedly impairs egg laying of adult worm pairs ^[1] .			
IC₅₀ & Target	Schistosome	hHDAC6 0.29 ± 0.0 μM (IC ₅₀)	hHDAC8 0.32 ± 0.0 μM (IC ₅₀)	hHDAC1 18.51 ± 1. μM (IC ₅₀)

REFERENCES

[1]. Ghazy E, et al. Synthesis, structure-activity relationships, cocrystallization and cellular characterization of novel smHDAC8 inhibitors for the treatment of schistosomiasis. Eur J Med Chem. 2021 Dec 5;225:113745.

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

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