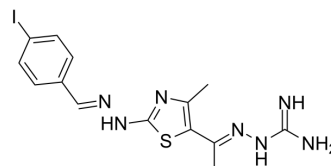


MMP-2/9-IN-1

Cat. No.:	HY-147867
CAS No.:	2415311-84-9
Molecular Formula:	C ₁₄ H ₁₆ IN ₇ S
Molecular Weight:	441.29
Target:	MMP
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MMP-2/9-IN-1 (Compound 4a) is a potent dual MMP-2 and MMP-9 inhibitor with IC ₅₀ values of 56 nM and 38 nM, respectively. MMP-2/9-IN-1 inhibits tumor growth, strongly induces cancer cell apoptosis, inhibits cell migration, and suppresses cell cycle progression leading to DNA fragmentation ^[1] .	
IC ₅₀ & Target	MMP-9 38 nM (IC ₅₀)	MMP-2 56 nM (IC ₅₀)

REFERENCES

[1]. Omar AM, et al. Novel molecular discovery of promising amidine-based thiazole analogues as potent dual Matrix Metalloproteinase-2 and 9 inhibitors: Anticancer activity data with prominent cell cycle arrest and DNA fragmentation analysis effects. *Bioorg Chem.* 2020 Aug;101:103992.

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

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