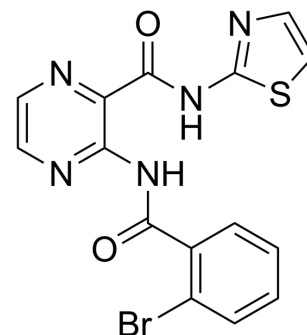


MtMetAP1-IN-1

Cat. No.:	HY-143249
Molecular Formula:	C ₁₅ H ₁₀ BrN ₅ O ₂ S
Molecular Weight:	404.24
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MtMetAP1-IN-1 is an inhibitor of Mycobacterium tuberculosis (Mtb), targeting methionine aminopeptidase 1 (MetAP1). MtMetAP1-IN-1 exerts antimycobacterial activity ^[1] .
IC₅₀ & Target	methionine aminopeptidase 1 (MetAP1) ^[1]
In Vitro	<p>MetAP1 is known to work in the presence of various divalent cations, is considered to acts function with a most probable cofactor, iron (Fe²⁺)^[1].</p> <p>MtMetAP1-IN-1 (compound 12) (12.5 μM) inhibits MtMetAP1 under different metals catalytic effect with residual activity RA (%) of 51% (Co²⁺), 21% (Ni²⁺), 33% (Fe²⁺)^[1].</p> <p>MtMetAP1-IN-1 has a preference towards Ni²⁺, inhibits MtMetAP1 with an IC₅₀ value of with 0.7 μM ^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Juhás M, et al. Design, synthesis and biological evaluation of substituted 3-amino-N-(thiazol-2-yl)pyrazine-2-carboxamides as inhibitors of mycobacterial methionine aminopeptidase 1. Bioorg Chem. 2022 Jan;118:105489.

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

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