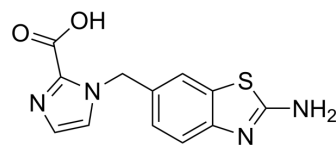


Metallo- β -lactamase-IN-7

Cat. No.:	HY-143415
CAS No.:	2752453-58-8
Molecular Formula:	C ₁₂ H ₁₀ N ₄ O ₂ S
Molecular Weight:	274.3
Target:	Bacterial; Beta-lactamase
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Metallo- β -lactamase-IN-7 is a potent VIM-Type metallo- β -lactamase inhibitor with IC ₅₀ s of 0.019 μ M, 13.64 μ M, 0.38 μ M for VIM-2, VIM-1 and VIM-5. Metallo- β -lactamase-IN-7 potentiates antibacterial activity of Meropenem against the Gram-negative bacterial strains ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.019 μ M (VIM-2), 13.64 μ M (VIM-1), 0.38 μ M (VIM-5) ^[1]
In Vitro	Metallo- β -lactamase-IN-7 (compound 59) (10 μ M; 18 - 20 hours) can potentiate Meropenem activity against VIM-2 mediated antibacterial resistance with FIC index values of 0.02 ^[1] . Metallo- β -lactamase-IN-7 (100 μ M) potentiates the antibacterial activity of Meropenem against PA W35 with FIC index values of 0.125 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yan YH, Li W, Chen W, et al. Structure-guided optimization of 1H-imidazole-2-carboxylic acid derivatives affording potent VIM-Type metallo- β -lactamase inhibitors. Eur J Med Chem. 2022;228:113965.

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

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