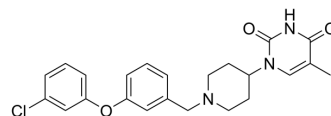


MtTMPK-IN-2

Cat. No.:	HY-144664
CAS No.:	2799607-71-7
Molecular Formula:	C ₂₃ H ₂₄ ClN ₃ O ₃
Molecular Weight:	425.91
Target:	Bacterial; Thymidylate Synthase
Pathway:	Anti-infection; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MtTMPK-IN-2 (compound 15) is a potent <i>Mycobacterium tuberculosis</i> thymidylate kinase (MtTMPK) inhibitor with an IC ₅₀ value of 1.1 μM. MtTMPK-IN-2 has inhibitory activity against Mtb H37Rv (MIC = 12.5 μM). MtTMPK-IN-2 exhibits certain cytotoxicity in human fibroblast cells MRC-5 (EC ₅₀ = 6.1 μM). MtTMPK-IN-2 can be used for researching tuberculosis ^[1] .
IC ₅₀ & Target	IC ₅₀ : 1.1 μM (MtTMPK) ^[1]

REFERENCES

[1]. Song L, et al. Structure-aided optimization of non-nucleoside M. tuberculosis thymidylate kinase inhibitors. Eur J Med Chem. 2021;225:113784.

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

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