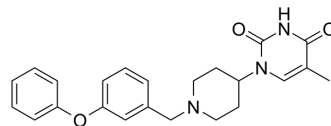


## MtTMPK-IN-4

Cat. No.:	HY-143452
CAS No.:	2225889-49-4
Molecular Formula:	C <sub>23</sub> H <sub>25</sub> N <sub>3</sub> O <sub>3</sub>
Molecular Weight:	391.46
Target:	Tyrosinase; Bacterial
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

MtTMPK-IN-4 (compound 2), a para-piperidine, is a potent mycobacterium tuberculosis thymidylate kinase (MtTMPK) inhibitor with an IC<sub>50</sub> of 6.1 μM. MtTMPK-IN-4 is a potent tyrosinase inhibitor. MtTMPK-IN-4 is a potent antibacterial agent<sup>[1]</sup> [2].

### REFERENCES

- [1]. Lijun Song, et al. Structure Guided Lead Generation toward Nonchiral M. tuberculosis Thymidylate Kinase Inhibitors. *J Med Chem.* 2018 Apr 12;61(7):2753-2775.
- [2]. Jin Li, et al. Recent advances in the design and discovery of synthetic tyrosinase inhibitors. *Eur J Med Chem.* 2021 Nov 15;224:113744.

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

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