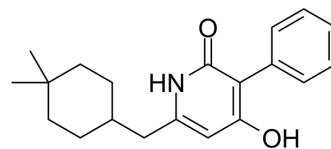


NITD-916

Cat. No.:	HY-122643
CAS No.:	1614262-83-7
Molecular Formula:	C ₂₀ H ₂₅ NO ₂
Molecular Weight:	311.42
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description NITD-916, a 4-hydroxy-2-pyridone derivative, is an orally active and highly lipophilic mycobacterial enoyl reductase InhA inhibitor with an IC₅₀ of 570 nM. NITD-916 forms a ternary complex with InhA and NADH to block access to the fatty acyl substrate binding pocket. NITD-916 has potent anti-tuberculosis effects^{[1][2]}.

IC₅₀ & Target IC50: 570 nM (InhA)^[1]

REFERENCES

- [1]. Ujjini H Manjunatha, et al. Direct inhibitors of InhA are active against Mycobacterium tuberculosis. *Sci Transl Med.* 2015 Jan 7;7(269):269ra3.
- [2]. Matthew B McNeil, et al. Mechanisms of resistance against NITD-916, a direct inhibitor of Mycobacterium tuberculosis InhA. *Tuberculosis (Edinb).* 2017 Dec;107:133-136.

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

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