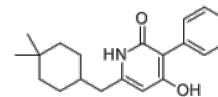


**Product Name** : NITD-916  
**Cat. No.** : PC-62531  
**CAS No.** : 1614262-83-7  
**Molecular Formula** : C<sub>20</sub>H<sub>25</sub>NO<sub>2</sub>  
**Molecular Weight** : 311.425  
**Target** : Bacterial  
**Solubility** : 10 mM in DMSO



## Biological Activity

NITD-916 is a novel, direct inhibitor of the mycobacterial enoyl-reductase **InhA** with IC<sub>50</sub> of 0.57  $\mu$ M, exhibits MIC<sub>50</sub> of 50 nM against Mtb.

NITD-916 shows MIC of 0.04 to 0.16  $\mu$ M against MDR-Mtb strains, binds specifically to InhA in an NADH-dependent manner and blocks the enoyl substrate-binding pocket.

NITD-916 shows in vivo efficacy in acute and established mouse models of Mycobacterium tuberculosis infection.

## References

Manjunatha UH, et al. *Sci Transl Med*. 2015 Jan 7;7(269):269ra3.

McNeil MB, et al. *Tuberculosis (Edinb)*. 2017 Dec;107:133-136.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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