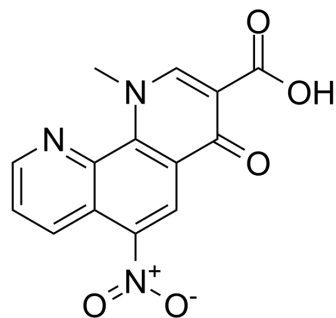


## Antibacterial agent 105

Cat. No.:	HY-146098
CAS No.:	2364493-24-1
Molecular Formula:	C <sub>14</sub> H <sub>9</sub> N <sub>3</sub> O <sub>5</sub>
Molecular Weight:	299.24
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Antibacterial agent 105 (Compound 17) is a phenanthroline analog of quinolones show antibacterial activity against M. tuberculosis with antibacterial activity (MIC <sub>90</sub> =2.64 μM) Antibacterial agent 105 exhibits antibacterial activities against different bacterial species with MIC <sub>90</sub> s of 11.18, 11.18, 0.70, 1.40, 44.70, and 22.35 μM for M. smegmatis, M. aurum, M. marinum, BCG, E. aerogenes and S. aureus, respectively <sup>[1]</sup> .
<b>In Vitro</b>	Antibacterial agent 105 (compound 17) has inhibitory effect on the growth of M. tuberculosis replicating in vitro cultured macrophages <sup>[1]</sup> . Antibacterial agent 105 (compound 17) (24 hours) has no toxicity on Vero cells line and human macrophages <sup>[1]</sup> . Antibacterial agent 105 (compound 17) has antibacterial activities against FQ resistant bacteria and XDR-TB <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Songuigama Coulibaly, et al. Phenanthroline analogs of quinolones show antibacterial activity against M. tuberculosis. Eur J Med Chem. 2020 Dec 1;207:112821.

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

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