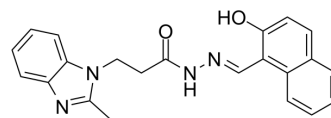


## Divin

Cat. No.:	HY-124712
CAS No.:	1443321-11-6
Molecular Formula:	C <sub>22</sub> H <sub>20</sub> N <sub>4</sub> O <sub>2</sub>
Molecular Weight:	372.42
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

### Description

Divin, a potent chelator of iron, is a potent inhibitor of bacterial cell division with bacteriostatic effect in Gram-negative and Gram-positive bacteria. Divin disrupts the assembly of late division proteins, reduces peptidoglycan remodeling at the division site, and blocks compartmentalization of the cytoplasm<sup>[1][2][3]</sup>.

## REFERENCES

- [1]. Maoquan Zhou, et al. Structure-activity studies of divin: an inhibitor of bacterial cell division. *ACS Med Chem Lett.* 2013 Sep 12;4(9):880-885.
- [2]. Ye-Jin Eun, et al. Divin: a small molecule inhibitor of bacterial divisome assembly. *J Am Chem Soc.* 2013 Jul 3;135(26):9768-76.
- [3]. Thiago M A Santos, et al. Small Molecule Chelators Reveal That Iron Starvation Inhibits Late Stages of Bacterial Cytokinesis. *ACS Chem Biol.* 2018 Jan 19;13(1):235-246.

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

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