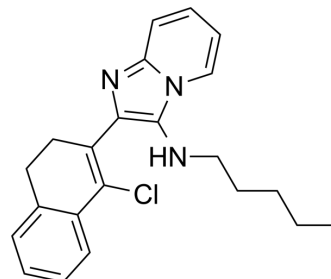


NorA-IN-2

| | |
|---------------------------|---|
| Cat. No.: | HY-163454 |
| Molecular Formula: | C ₂₂ H ₂₄ ClN ₃ |
| Molecular Weight: | 365.9 |
| Target: | Bacterial |
| Pathway: | Anti-infection |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | | | | | | | | | |
|--------------------|--|------------|------------------------|----------------|---------------------|------------------|------|---------|--|
| Description | NorA-IN-2 (compound DZ-3) is a potent NorA inhibitor. NorA-IN-2 shows NorA efflux pump inhibitors (EPI) activity ^[1] . | | | | | | | | |
| In Vitro | <p>NorA-IN-2 (compound DZ-3) shows antimicrobial activity with MICs of 8, 256, 128, 128 µg/mL for Staphylococcus aureus (S. aureus) 1199B, S. aureus RN4220, S. aureus XU212, E. coli AG100, respectively^[1].</p> <p>NorA-IN-2 (300, 400, 500 µg/mL; 24 h) shows cytotoxicity for RAW 264.7, HaCaT cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cytotoxicity Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>RAW 264.7, HaCaT cells</td> </tr> <tr> <td>Concentration:</td> <td>300, 400, 500 µg/mL</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Showed cytotoxicity with the viability dropped to 55 % and about 15 % in RAW 264.7 cells at 400 and 500 µg/ml respectively, 9% at concentration of 500 µg/ml in HaCaT cells.</td> </tr> </table> | Cell Line: | RAW 264.7, HaCaT cells | Concentration: | 300, 400, 500 µg/mL | Incubation Time: | 24 h | Result: | Showed cytotoxicity with the viability dropped to 55 % and about 15 % in RAW 264.7 cells at 400 and 500 µg/ml respectively, 9% at concentration of 500 µg/ml in HaCaT cells. |
| Cell Line: | RAW 264.7, HaCaT cells | | | | | | | | |
| Concentration: | 300, 400, 500 µg/mL | | | | | | | | |
| Incubation Time: | 24 h | | | | | | | | |
| Result: | Showed cytotoxicity with the viability dropped to 55 % and about 15 % in RAW 264.7 cells at 400 and 500 µg/ml respectively, 9% at concentration of 500 µg/ml in HaCaT cells. | | | | | | | | |

REFERENCES

[1]. A Malik A, et al. Discovery of novel dihydronaphthalene-imidazole ligands as potential inhibitors of Staphylococcus aureus multidrug resistant NorA efflux pump: A combination of experimental and in silico molecular docking studies. Microb Pathog. 2024 Mar 21;190:106627.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA