

## LasR-IN-2

## Chemical Properties

CAS No. :

Formula: C<sub>21</sub>H<sub>16</sub>ClN<sub>3</sub>O<sub>2</sub>

Molecular Weight: 377.82

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

## Biological Description

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | LasR-IN-2, a compound that inhibits the activity of LasR, forms hydrogen bonding with the TRY-56 residue. It finds application in the study of bacterial infection, neutropenia, severe burns, and chronic lung disease in cystic fibrosis (CF) [1].                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| In vitro    | LasR-IN-2 (Compound 8a), over a concentration range of 4.68-150 µg/mL and an exposure period of 24 hours, effectively inhibits the growth of <i>P. aeruginosa</i> , as demonstrated by a decrease in bacterial propagation and a Minimum Inhibitory Concentration (MIC) value of 74.40 µM [1]. At a specific concentration of 18.5 µM for the same duration, LasR-IN-2 also suppresses biofilm formation, pyocyanin production, and rhamnolipids synthesis [1]. Furthermore, this compound impedes the proliferation of human dermal fibroblasts (HDFa) with an IC <sub>50</sub> value of 102 µM after 24 hours of treatment, indicating its potent biocidal and cytotoxic effects [1]. |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.6468 mL | 13.2338 mL | 26.4676 mL |
| 5 mM  | 0.5294 mL | 2.6468 mL  | 5.2935 mL  |
| 10 mM | 0.2647 mL | 1.3234 mL  | 2.6468 mL  |
| 50 mM | 0.0529 mL | 0.2647 mL  | 0.5294 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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