Data Sheet (Cat.No.T61581)

TargetMol

LasR-IN-2

Chemical Properties

CAS No. :

Formula: C21H16ClN3O2

Molecular Weight: 377.82

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

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].
Targets(IC50)	Others,Antibacterial
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 P. aeruginosa, 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 IC50 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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