

GTPL547

## Chemical Properties

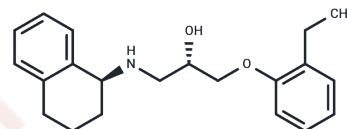
CAS No. : 174689-38-4

Formula: C<sub>21</sub>H<sub>27</sub>NO<sub>2</sub>

Molecular Weight: 325.45

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	GTPL547 is a potent quorum sensing system antagonist specifically targeting the PqsR (MvfR) transcriptional regulator in <i>Pseudomonas aeruginosa</i> (IC <sub>50</sub> = 12 nM). By halting the PQS-mediated gene transcription cascade, it completely suppresses the secretion of lethal virulence factors like pyocyanin and the irreversible assembly of biofilms, providing a critical lead compound for tackling multidrug-resistant infections.
Targets(IC50)	Antibacterial

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0727 mL	15.3633 mL	30.7267 mL
5 mM	0.6145 mL	3.0727 mL	6.1453 mL
10 mM	0.3073 mL	1.5363 mL	3.0727 mL
50 mM	0.0615 mL	0.3073 mL	0.6145 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.

## Reference

Clinton G L Veale, et al. Unpacking the Pathogen Box-An Open Source Tool for Fighting Neglected Tropical Disease. *ChemMedChem*. 2019 Feb 19;14(4):386-453.

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