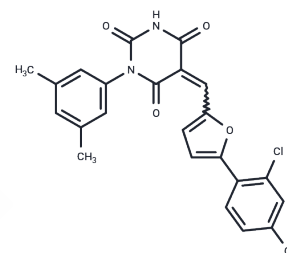


## Pneumolysin-IN-1

### Chemical Properties

CAS No. :	330842-49-4
Formula:	C <sub>23</sub> H <sub>16</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	455.29
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	Pneumolysin-IN-1 (compound PB-3), characterized as a targeted small molecule inhibitor of Pneumolysin (PLY) with an IC <sub>50</sub> value of 3.1 μM, acts as a pore-blocking agent and an anti-virulence factor. This compound is useful for researching infections caused by <i>Streptococcus pneumoniae</i> [1].
Targets(IC <sub>50</sub> )	Antibacterial
In vitro	Pneumolysin-IN-1, at concentrations of 1, 3, and 6 μM over 4 and 24 hours, significantly inhibits PLY-induced cellular damage in a concentration-dependent manner [1]. Cell Viability Assay [1] Cell Line: A549 cells Concentration: 1, 3 and 6 μM Incubation Time: 4 and 24 h Result: Prevented more than 95% of cellular damage at 6 μM.

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1964 mL	10.982 mL	21.964 mL
5 mM	0.4393 mL	2.1964 mL	4.3928 mL
10 mM	0.2196 mL	1.0982 mL	2.1964 mL
50 mM	0.0439 mL	0.2196 mL	0.4393 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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