

## MurB-IN-1

## Chemical Properties

CAS No. :

Formula: C<sub>12</sub>H<sub>7</sub>Cl<sub>2</sub>F<sub>3</sub>N<sub>2</sub>O<sub>2</sub>

Molecular Weight: 339.1

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	MurB-IN-1 (compound 44) is a potent inhibitor of MurB, an essential enzyme involved in the synthesis of the bacterial cell wall. With a binding affinity of K <sub>d</sub> 3.57 μM, MurB-IN-1 effectively hinders MurB activity, presenting a promising therapeutic option against P. aeruginosa, a highly virulent and opportunistic pathogen associated with severe infections and mortality [1].
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.949 mL	14.7449 mL	29.4898 mL
5 mM	0.5898 mL	2.949 mL	5.898 mL
10 mM	0.2949 mL	1.4745 mL	2.949 mL
50 mM	0.059 mL	0.2949 mL	0.5898 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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