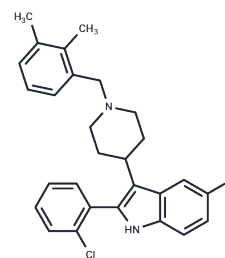


## CDFI

## Chemical Properties

CAS No. :	1199797-92-6
Formula:	C <sub>28</sub> H <sub>28</sub> ClFN <sub>2</sub>
Molecular Weight:	446.99
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	CDFI is a lipid II flipase (MurJ) inhibitor that inhibits methicillin-resistant Staphylococcus aureus (MRSA) cell wall biosynthesis, used in the study of MRSA infections.
Targets(IC50)	Others
In vitro	CDFI is a novel anti-infective agent targeting MRSA cell wall biosynthesis. [1]

## Solubility Information

Solubility	DMSO: 80 mg/mL (178.97 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.38 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.2372 mL	11.1859 mL	22.3719 mL
5 mM	0.4474 mL	2.2372 mL	4.4744 mL
10 mM	0.2237 mL	1.1186 mL	2.2372 mL
50 mM	0.0447 mL	0.2237 mL	0.4474 mL

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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

Koyama N, et al. Anti-infectious agents against MRSA. *Molecules*. 2012 Dec 24;18(1):204-24.

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