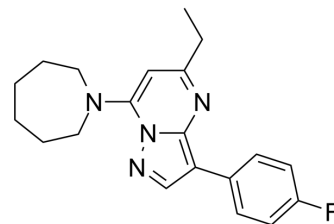


## JPD447

Cat. No.:	HY-139628		
CAS No.:	2883235-86-5		
Molecular Formula:	C <sub>20</sub> H <sub>23</sub> FN <sub>4</sub>		
Molecular Weight:	338.42		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 100 mg/mL (295.49 mM); ultrasonic and warming and heat to 80°C

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9549 mL	14.7745 mL	29.5491 mL
	5 mM	0.5910 mL	2.9549 mL	5.9098 mL
	10 mM	0.2955 mL	1.4775 mL	2.9549 mL

Please refer to the solubility information to select the appropriate solvent.

### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: 2.5 mg/mL (7.39 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: 2.5 mg/mL (7.39 mM); Clear solution; Need ultrasonic

## BIOLOGICAL ACTIVITY

### Description

JPD447, a MAC-0547630 derivative, is a novel class of UppS inhibitor to potentiate β-lactam antibiotics.

## REFERENCES

- [1]. Workman SD, et al. Structural Insights into the Inhibition of Undecaprenyl Pyrophosphate Synthase from Gram-Positive Bacteria. *J Med Chem.* 2021 Sep 23;64(18):13540-13550.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA