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## J0146

Cat. No.: HY-144820

CAS No.: 130727-21-8Molecular Formula:  $C_{31}H_{44}N_3O_7P$ Molecular Weight: 601.67

**Target:** Ser/Thr Protease

Pathway: Metabolic Enzyme/Protease

Storage: Powder -20°C 3 years

4°C 2 years In solvent -80°C 6 months

-20°C 1 month

**Product** Data Sheet

#### **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 100 mg/mL (166.20 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.6620 mL	8.3102 mL	16.6204 mL
	5 mM	0.3324 mL	1.6620 mL	3.3241 mL
	10 mM	0.1662 mL	0.8310 mL	1.6620 mL

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

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (4.16 mM); Clear solution; Need ultrasonic
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- $\beta$ -CD in saline) Solubility: 2.5 mg/mL (4.16 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (4.16 mM); Clear solution; Need ultrasonic

### **BIOLOGICAL ACTIVITY**

Description

JO146 is a Chlamydia trachomatis high temperature requirement A (CtHtrA) protease inhibitor with IC<sub>50</sub>s of 21.86 and 1.15  $\mu$  M for CtHtrA and human neutrophil elastase (HNE), respectively. JO146 can be used to inhibits bacterial infections<sup>[1]</sup>.

#### **REFERENCES**

1]. Jimin Hwang, et al. Design 2022 Feb 15;230:114064.	, synthesis and biological eva	lluation of P2-modified proline ar	nalogues targeting the HtrA serine protease in Chlamydia.	. Eur J Med Chem.
	Caution: Product has n	at been fully validated for me	edical applications. For research use only.	
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