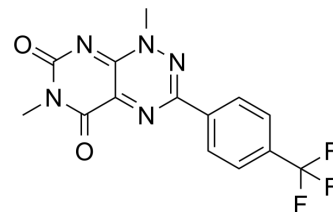


Walrycin B

Cat. No.:	HY-18219
CAS No.:	878419-78-4
Molecular Formula:	C ₁₄ H ₁₀ F ₃ N ₅ O ₂
Molecular Weight:	337.26
Target:	Bacterial; Antibiotic; SARS-CoV
Pathway:	Anti-infection
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 11.5 mg/mL (34.10 mM; Need ultrasonic and warming)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		2.9651 mL	14.8254 mL	29.6507 mL
		5 mM		0.5930 mL	2.9651 mL	5.9301 mL
		10 mM		0.2965 mL	1.4825 mL	2.9651 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 (7.41 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (7.41 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Walrycin B, an analogue of toxoflavin, is a potent SARS-CoV-2 3CL ^{Pro} inhibitor with an IC ₅₀ of 0.26 μM. Walrycin B is a WalR response regulator inhibitor. Walrycin B has potent activity of inhibiting bacteria growth ^{[1][2]} .
In Vitro	Walrycin B shows toxicity with a CC ₅₀ value of 4.25 μM for Vero E6 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

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- Future Med Chem. 2016;8(3):257-69.

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REFERENCES

- [1]. Wei Zhu, et al. Identification of SARS-CoV-2 3CL Protease Inhibitors by a Quantitative High-throughput Screening. bioRxiv. 2020 Aug 11:2020.07.17.207019.
- [2]. Gotoh Y, et al. Novel antibacterial compounds specifically targeting the essential WalR response regulator. J Antibiot (Tokyo). 2010 Mar;63(3):127-34.
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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

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