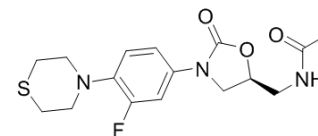


Sutezolid

Cat. No.:	HY-10392		
CAS No.:	168828-58-8		
Molecular Formula:	C ₁₆ H ₂₀ FN ₃ O ₃ S		
Molecular Weight:	353.41		
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 : 50 mg/mL (141.48 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.8296 mL	14.1479 mL	28.2957 mL
	5 mM	0.5659 mL	2.8296 mL	5.6591 mL
	10 mM	0.2830 mL	1.4148 mL	2.8296 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 (7.07 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**
Solubility: ≥ 2.5 mg/mL (7.07 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
Solubility: ≥ 2.5 mg/mL (7.07 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sutezolid (PNU-100480) is an oxazolidinone antimicrobial being developed for the treatment of tuberculosis. Target: Antibacterial. Sutezolid is a much-awaited drug candidate for treatment of Mycobacterium tuberculosis. [1] Sutezolid is an oxazolidinone antibiotic currently in development as a treatment for extensively drug-resistant tuberculosis. Sutezolid is a linezolid analog with superior bactericidal activity against Mycobacterium tuberculosis in the hollow fiber, whole blood and mouse models. Like linezolid, it is unaffected by mutations conferring resistance to standard TB drugs. This study of sutezolid is its first in tuberculosis patients. [2]

CUSTOMER VALIDATION

- J Pharm Biomed Anal. 2019 May 30;169:196-207.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Zhu T, et al. Population pharmacokinetic/pharmacodynamic analysis of the bactericidal activities of sutezolid (PNU-100480) and its major metabolite against intracellular Mycobacterium tuberculosis in ex vivo whole-blood cultures of patients with pulmonary tuberculosis. *PLoS One*. 2014 Apr 14;9(4):e94462.
- [2]. Wallis RS, et al. Mycobactericidal activity of sutezolid (PNU-100480) in sputum (EBA) and blood (WBA) of patients with pulmonary tuberculosis. *PLoS One*. 2014 Apr 14;9(4):e94462.
-

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