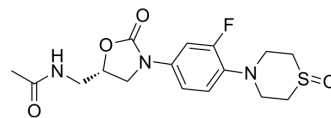


PNU-101603

Cat. No.:	HY-125941		
CAS No.:	168828-60-2		
Molecular Formula:	C ₁₆ H ₂₀ FN ₃ O ₄ S		
Molecular Weight:	369.41		
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 : 100 mg/mL (270.70 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.7070 mL	13.5351 mL	27.0702 mL
5 mM	0.5414 mL	2.7070 mL	5.4140 mL
10 mM	0.2707 mL	1.3535 mL	2.7070 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 (6.77 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.77 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.77 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PNU-101603 is a sulfoxide metabolite of [Sutezolid](#) (HY-10392). PNU-101603 alone or combined with [SQ109](#) (HY-14989) shows excellent activity against Mycobacterium tuberculosis (MTB), as well as against agent-susceptible and multidrug-resistant TB^{[1][2]}.

In Vitro

PNU-101603 (compound 7, 21 days) inhibits M. tuberculosis activity^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Cell Viability Assay^[2]

Cell Line:	M. tuberculosis
Concentration:	0-1 µg/mL approximately
Incubation Time:	21 days
Result:	Inhibited M. tuberculosis with a MIC value ≤ 0.125 µg/mL.

REFERENCES

- [1]. Reddy VM, et al. SQ109 and PNU-100480 interact to kill Mycobacterium tuberculosis in vitro. J Antimicrob Chemother. 2012 May;67(5):1163-6.
- [2]. Barbachyn MR, et al. Identification of a novel oxazolidinone (U-100480) with potent antimycobacterial activity. J Med Chem. 1996 Feb 2;39(3):680-5.

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