Tuberculosis inhibitor 3

Cat. No.: HY-114147

CAS No.: 2219325-28-5

Molecular Formula: $C_{21}H_{22}F_6N_4O_3S$

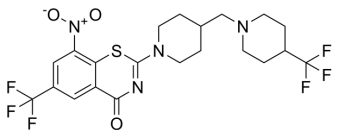
Molecular Weight: 524.48

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 : 27.5 mg/mL (52.43 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9067 mL	9.5333 mL	19.0665 mL
	5 mM	0.3813 mL	1.9067 mL	3.8133 mL
	10 mM	0.1907 mL	0.9533 mL	1.9067 mL

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

BIOLOGICAL ACTIVITY

Description

Tuberculosis inhibitor 3 (compound 2i) displays potent anti-TB activity (MIC < 0.016 μg/mL) against agent-sensitive/resistant MTB strains. Tuberculosis inhibitor 3 (compound 2i) shows acceptable PK profiles with oral bioavailability[1].

In Vitro

Tuberculosis inhibitor 3 (compound 2i, 50 mg/kg) shows acceptable PK properties with the AUC of 2489 h•ng/mL) is. The T_{max} of Tuberculosis inhibitor 3 is 0.25 h[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kai Lv, et al. Design, synthesis and antitubercular evaluation of benzothiazinones containing a piperidine moiety. Eur J Med Chem. 2018 May 10;151:1-8.

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