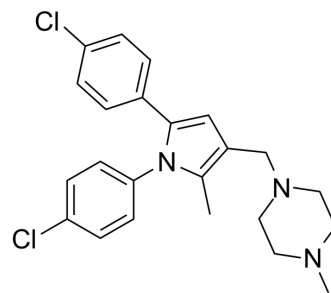


BM212

Cat. No.:	HY-100725		
CAS No.:	146204-42-4		
Molecular Formula:	C ₂₃ H ₂₅ Cl ₂ N ₃		
Molecular Weight:	414.37		
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

Ethanol : 5.56 mg/mL (13.42 mM; Need ultrasonic)
 DMSO : 1 mg/mL (2.41 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.4133 mL	12.0665 mL	24.1330 mL
5 mM	0.4827 mL	2.4133 mL	4.8266 mL
10 mM	0.2413 mL	1.2067 mL	2.4133 mL

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

In Vivo

- Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 0.56 mg/mL (1.35 mM); Clear solution
- Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 0.56 mg/mL (1.35 mM); Clear solution
- Add each solvent one by one: 10% EtOH >> 90% corn oil
 Solubility: ≥ 0.56 mg/mL (1.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

BM212 is a potent Mycobacterial membrane protein Large 3 (Mmpl3) inhibitor. BM212 has strong bactericidal activity against both *M. tuberculosis* and some nontuberculosis mycobacteria. BM212 exhibits antimycobacterial activity against *M. tuberculosis* H37Rv with an MIC of 5 μM^{[1][2]}.

IC₅₀ & Target

M. tuberculosis^[1]

CUSTOMER VALIDATION

- Nanoscale Horiz. 2020 Jun 1;5(6):944-953.
- ACS Infect Dis. 2020 Dec 15.
- Advanced Biochemistry, University of Madras, American.2019, Jan

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Poce G et al. Improved BM212 MmpL3 inhibitor analogue shows efficacy in acute murine model of tuberculosis infection. PLoS One. 2013;8(2)
- [2]. Deidda D et al. Bactericidal activities of the pyrrole derivative BM212 against multidrug-resistant and intramacrophagic Mycobacterium tuberculosis strains. Antimicrob Agents Chemother. 1998 Nov;42(11):3035-7.
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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