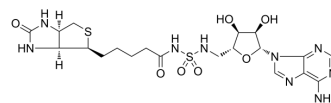


Bio-AMS

Cat. No.:	HY-115448
CAS No.:	1393881-52-1
Molecular Formula:	C ₂₀ H ₂₉ N ₉ O ₇ S ₂
Molecular Weight:	571.63
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (174.94 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7494 mL	8.7469 mL	17.4938 mL
	5 mM	0.3499 mL	1.7494 mL	3.4988 mL
	10 mM	0.1749 mL	0.8747 mL	1.7494 mL

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

BIOLOGICAL ACTIVITY

Description

Bio-AMS is a potent bacterial biotin protein ligase inhibitor. Bio-AMS possesses selective activity against Mycobacterium tuberculosis (Mtb) and arrests fatty acid and lipid biosynthesis^{[1][2]}.

REFERENCES

- [1]. Bockman MR, Aldrich CC, et al. Avoiding Antibiotic Inactivation in Mycobacterium tuberculosis by Rv3406 through Strategic Nucleoside Modification. ACS Infect Dis. 2018 Jul 13;4(7):1102-1113.
- [2]. Tiwari D, et al. Targeting protein biotinylation enhances tuberculosis chemotherapy. Sci Transl Med. 2018 Apr 25;10(438):eaal1803.

Caution: Product has not been fully validated for medical applications. For research use only.

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