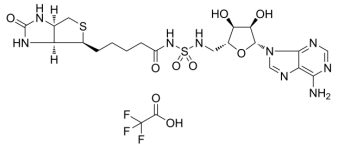
Bio-AMS TFA

Cat. No.:	HY-115448A
Molecular Formula:	$C_{22}H_{30}F_3N_9O_9S_2$
Molecular Weight:	685.65
Target:	Bacterial
Pathway:	Anti-infection

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Bio-AMS (TFA) is a potent bacterial biotin protein ligase inhibitor. Bio-AMS (TFA) possesses selective activity against Mycobacterium tuberculosis (Mtb) and arrests fatty acid and lipid biosynthesis[1].
IC_{50} & Target	Biotin protein ligase[1]
In Vitro	Bio-AMS possesses excellent antitubercular activity against Mtb H37Rv and MDR/XDR-TB strains with MICs ranging from 0.16 to 0.625 μM and is not affected by changes to the primary carbon source[1]. Bio-AMS (2.5, 5 and 10 μM; 24 h) inhibits growth of Mtb in a concentration-dependent manner in Mtb-infected mouse macrophages; shows no signs of mitochondrial toxicity[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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, Schnappinger D, et al. Targeting protein biotinylation enhances tuberculosis chemotherapy. Sci Transl Med. 2018 Apr 25;10(438):eaal1803.

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