Salicyl-AMS

Cat. No.: CAS No.: Molecular Formula:	HY-108941 863238-55-5 C ₁₇ H ₁₈ N ₆ O ₈ S	
Molecular Weight:	466.43	
Target:	Bacterial	O HO OH
Pathway:	Anti-infection	
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under	
	nitrogen)	

SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 90.5 mg/mL (194.03 mM) * "≥" means soluble, but saturation unknown.					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.1439 mL	10.7197 mL	21.4394 mL	
		5 mM	0.4288 mL	2.1439 mL	4.2879 mL	
		10 mM	0.2144 mL	1.0720 mL	2.1439 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.67 mg/mL (3.58 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.67 mg/mL (3.58 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (3.58 mM); Clear solution					

BIOLOGICAL ACTIV			
Description	Salicyl-AMS is a mycobactin biosynthesis inhibitor which can also inhibit <i>M. tuberculosis</i> growth in vitro under iron-limited conditions.		
IC ₅₀ & Target	Bacterial ^[1]		

REFERENCES

NH₂



[1]. Lun S, et al. Pharmacokinetic and in vivo efficacy studies of the mycobactin biosynthesis inhibitor salicyl-AMS in mice. Antimicrob Agents Chemother. 2013 Oct;57(10):5138-40.

[2]. Ferreras JA, et al. Small-molecule inhibition of siderophore biosynthesis in Mycobacterium tuberculosis and Yersinia pestis. Nat Chem Biol. 2005 Jun;1(1):29-32.

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

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