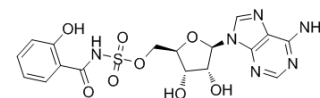


Salicyl-AMS

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 90.5 mg/mL (194.03 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		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

- 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
- 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
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1.67 mg/mL (3.58 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Salicyl-AMS is a mycobactin biosynthesis inhibitor which can also inhibit *M. tuberculosis* growth in vitro under iron-limited conditions.

IC₅₀ & Target

Bacterial^[1]

REFERENCES

[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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