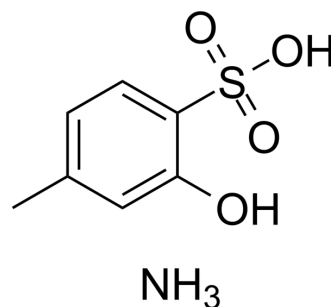


2-Hydroxy-4-methylbenzenesulphonic acid ammonium

Cat. No.:	HY-136574
CAS No.:	79093-71-3
Molecular Formula:	C ₇ H ₁₁ NO ₄ S
Molecular Weight:	205.23
Target:	Virus Protease
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (609.07 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	4.8726 mL	24.3629 mL	48.7258 mL
				5 mM	0.9745 mL	4.8726 mL	9.7452 mL
				10 mM	0.4873 mL	2.4363 mL	4.8726 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: ≥ 2.08 mg/mL (10.13 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (10.13 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (10.13 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	2-Hydroxy-4-methylbenzenesulphonic acid ammonium is an impurity of Policresulen. Policresulen is a potent NS2B/NS3 protease inhibitor with an IC ₅₀ of 0.48 µg/mL. Policresulen effectively inhibits the replication of DENV2 virus in BHK-21 cells with an IC ₅₀ of 4.99 µg/mL. Policresulen acted as a competitive inhibitor of the protease, and slightly affected the protease stability ^[1] .
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REFERENCES

[1]. Deng-wei Wu, et al. Policresulen, a novel NS2B/NS3 protease inhibitor, effectively inhibits the replication of DENV2 virus in BHK-21 cells. Acta Pharmacol Sin. 2015 Sep;36(9):1126-36.

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

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