Product Data Sheet

Polymyxin B Sulfate

®

Colo No.	11/ 40040	
Cat. No.:	HY-A0248	
CAS No.:	1405-20-5	
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \\ \end{array} \\ \\ \end{array} \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \\ \\ \\ $

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In Vitro	DMSO : 33.33 mg/mL (Need ultrasonic) H ₂ O : 16.67 mg/mL (Need ultrasonic)
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.71 mg/mL (Infinity mM); Clear solution
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.71 mg/mL (Infinity mM); Clear solution
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.71 mg/mL (Infinity mM); Clear solution

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Description	antiendotoxin agent. Po	a potent antibacterial agent and a relatively toxic antibiotic. Polymyxin B Sulfate also is a olymyxin B Sulfate shows endotoxin-neutralizing properties can be used as adjunctive research in Polymyxin B Sulfate shows antibacterial activities in vitro and in vivo ^{[1][2][3]} .
In Vitro		ows antibacterial activities with MICs of 0.5 mg/l for E. coli strain IH3080 ^[3] . ently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Polymyxin B Sulfate (2)	5-120 mg/kg; s.c.) shows antibacterial activities in thigh or lung infection mouse model ^[2] . mg/kg, s.c.) shows potent in mouse bactericidal effect against E. coli strain IH3080 ^[3] . ently confirmed the accuracy of these methods. They are for reference only.
	Animal Model:	Eight-week-old, 24-30 g, female Swiss mice ^[2]
	Dosage:	0.5-120 mg/kg for thigh infection model; 5-120 mg/kg for lung infection mode
	Administration:	S.c.
	Result:	Showed antibacterial activities for three K. pneumoniae strains.



Animal Model:	7-9 weeks, female NMRI mice (E. coli IH3080) ^[3]
Dosage:	2 mg/kg
Administration:	S.c.
Result:	Decreased the bacterial count in a dose dependent manner.

CUSTOMER VALIDATION

- ACS Nano. 2021 Mar 23;15(3):4173-4185.
- Transl Psychiatry. 2022 Apr 7;12(1):146.
- Int J Pharm. 2021 Dec 14;612:121356.
- J Antimicrob Chemother. 2020 Sep 1;75(9):2609-2615.
- Agronomy. 2024 Feb 8, 14(2), 351.

See more customer validations on www.MedChemExpress.com

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

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