

Polymyxin B

Cat. No.: HY-149179
CAS No.: 1404-26-8

Target: Bacterial; Antibiotic

Pathway: Anti-infection

Storage: Powder -20°C 3 years

4°C 2 years

In solvent -80°C 6 months

-20°C 1 month

Polymyxin B

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro H₂O: 33.33 mg/mL (ultrasonic and adjust pH to 2 with HCl)

BIOLOGICAL ACTIVITY

Description	Polymyxin B is an antibiotic. Polymyxin B inhibits Gram-negative infections by binding to the LPS of the bacterial wall with high affinity. Polymyxin B neutralizes the effect of endotoxin. Polymyxin B induces bacterial death by increasing its permeability. Polymyxin B is used in endotoxemia research ^{[1][3]} .
In Vitro	Polymyxin B (10 μ g/mL, 6 h) decreases the TNF- α and IL-10 production in Human peripheral blood mononuclear cells (PBMC) ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Polymyxin B (5-20 mg/kg for i.v; once daily for seven days) reaches the nephrotoxicity endpoint at 20 mg/kg instead of 5 mg/kg in Sprague-Dawley rats model ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Biomed Pharmacother. 2023 Nov 8:115856.
- Prince of Songkla University. 2023 Dec.

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REFERENCES

- [1]. Martin EL, et al. Endotoxin removal: how far from the evidence? The EUPHAS 2 Project. Contrib Nephrol. 2010; 167:119-125.
- [2]. Manchandani P, et al.Role of Renal Drug Exposure in Polymyxin B-Induced Nephrotoxicity. Antimicrob Agents Chemother. 2017 Mar 24;61(4):e02391-16.



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