

Colistimethate

Cat. No.:	HY-P4067
CAS No.:	12705-41-8
Molecular Formula:	$C_{58}H_{105}N_{16}Na_5O_{28}S_5$
Molecular Weight:	1749.82
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Colistimethate is a polymyxin with cytotoxicity to renal tubular cells. Colistimethate has poorly inactive in vivo. Colistimethate shows seldomly detectable activity against 6 strains of <i>P. aeruginosa</i> ^{[1][2]} .
In Vitro	Colistimethate is cytotoxic to renal tubular cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Colistimethate is prone to cause nephrotoxicity in vivo ^[1] . Colistimethate (306 mg/kg; s.c.; single dose) is relatively ineffective against <i>P. aeruginosa</i> strains (i.p.) in mouse ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zavascki AP, et al. Nephrotoxicity of Polymyxins: Is There Any Difference between Colistimethate and Polymyxin B? *Antimicrob Agents Chemother.* 2017 Feb 23;61(3):e02319-16.

[2]. Davis SD. Activity of gentamicin, tobramycin, polymyxin B, and colistimethate in mouse protection tests with *Pseudomonas aeruginosa*. *Antimicrob Agents Chemother.* 1975 Jul;8(1):50-3.

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

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