

Polymyxin D2

Chemical Properties

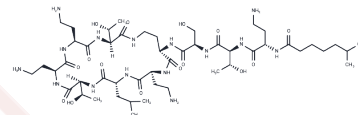
CAS No. : 34167-45-8

Formula: C₄₉H₉₁N₁₅O₁₅

Molecular Weight: 1130.34

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Polymyxin D2 is a cationic lipopeptide antibiotic against many species of Gram-negative bacteria.
Targets(IC50)	Others,Antibacterial,Antibiotic

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8847 mL	4.4234 mL	8.8469 mL
5 mM	0.1769 mL	0.8847 mL	1.7694 mL
10 mM	0.0885 mL	0.4423 mL	0.8847 mL
50 mM	0.0177 mL	0.0885 mL	0.1769 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Shaheen M, Li J, Ross AC, Vederas JC, Jensen SE. Paenibacillus polymyxa PKB1 produces variants of polymyxin B-type antibiotics. Chem Biol. 2011 Dec 23;18(12):1640-8. doi: 10.1016/j.chembiol.2011.09.017. PubMed PMID: 22195566.

Gilleland HE Jr, Conrad RS. Chemical alterations in cell envelopes of polymyxin-resistant mutants of Pseudomonas aeruginosa grown in the absence or presence of polymyxin. Antimicrob Agents Chemother. 1982 Dec;22(6):1012-6. PubMed PMID: 6297381; PubMed Central PMCID: PMC185712.

Iannazzo L, Sathananthan S, Majewski H. Modulation of dopamine release from rat striatum by protein kinase C: interaction with presynaptic D2-dopamine-autoreceptors. Br J Pharmacol. 1997 Dec;122(8):1561-6. PubMed PMID: 9422799; PubMed Central PMCID: PMC1565103.

Jamrozik Z, De Yebenes JG, Troung DD, Cadet J. Intrastratial infusion of amiloride increases rotations in 6-OHDA lesioned rats and "down-regulates" D2 receptors in the striatum and 5-HT2A receptors in the cortex. Pol J Pharmacol. 1994 Sep-Oct;46(5):417-22. PubMed PMID: 7894528.

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