

## Product Datasheet

# Colistin methanesulfonate sodium salt (orb1306318)

<b>Catalog Number</b>	orb1306318
<b>Category</b>	Small Molecules
<b>Description</b>	Colistimethate Sodium is a polymyxin antibiotic derived from <i>Bacillus colistinus</i> , consisting of Polymyxin E1 and E2. It is widely used in research for studying antimicrobial resistance and evaluating efficacy against Gram-negative pathogens in both in vitro and in vivo models.
<b>Target</b>	Cell wall, Antibiotic, Antibacterial
<b>Purity</b>	≥98% (May vary between batches)
<b>MW</b>	1742(Average)
<b>Target Areas</b>	Antibiotic Antibacterial Cell wall
<b>Solubility (25°C)</b>	DMSO:55 mg/mL
<b>CAS Number</b>	8068-28-8
<b>Formula</b>	$C_{58}H_{104}N_{16}Na_5O_{28}S_5$

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**SMILES**

[Na+].[Na+].[Na+].[Na+].[Na+].[Na+].[Na+].[Na+].[Na+].[Na+].[Na+].CC(C)CCCC(=O)N[C@@H](CCNCS([O-]))(=O)=O)C(=O)N[C@@H]([C@@H](C)O)C(=O)N[C@@H](CCNCS([O-]))(=O)=O)C(=O)N[C@@H]1CCNC(=O)[C@@H](NC(=O)[C@@H](CCNCS([O-]))(=O)=O)NC(=O)[C@@H](CCNCS([O-]))(=O)=O)NC(=O)[C@@H](CC(C)C)NC(=O)[C@@H](CC(C)C)NC(=O)[C@@H](CCNCS([O-]))(=O)=O)NC1=O)[C@@H](C)O.CCC(C)CCCC(=O)N[C@@H](CCNCS([O-]))(=O)=O)C(=O)N[C@@H]([C@@H](C)O)C(=O)N[C@@H](CCNCS([O-]))(=O)=O)C(=O)N[C@@H]1CCNC(=O)[C@@H](NC(=O)[C@@H](CCNCS([O-]))(=O)=O)NC(=O)[C@@H](CC(C)C)NC(=O)[C@@H](CC(C)C)NC(=O)[C@@H](CCNCS([O-]))(=O)=O)NC1=O)[C@@H](C)O

**Storage**

Powder: -20°C for 3 years | In solvent: -80°C for 1 year | Shipping with blue ice/Shipping at ambient temperature.

**Note**

For research use only

**Expiration Date**

12 months from date of receipt.

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