



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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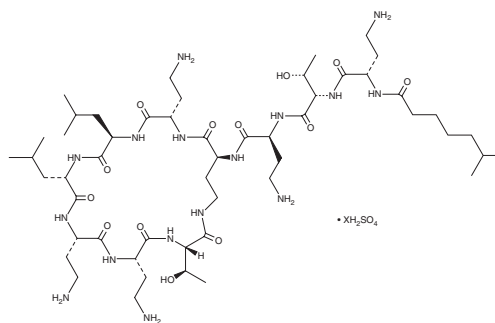
# PRODUCT INFORMATION



## Polymyxin E<sub>2</sub> (sulfate)

Item No. 39721

**CAS Registry No.:** 1338055-88-1  
**Formal Name:** 1-[(2S)-4-amino-2-[(6-methyl-1-oxoheptyl)amino]butanoic acid]-polymyxin E<sub>1</sub>, sulfate  
**Synonym:** Colistin B sulfate  
**MF:** C<sub>52</sub>H<sub>98</sub>N<sub>16</sub>O<sub>13</sub> • XH<sub>2</sub>SO<sub>4</sub>  
**FW:** 1,155.4  
**Purity:** ≥90%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥4 years  
**Item Origin:** Bacterium/*Bacillus polymyxa* var. *colistinus*



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Polymyxin E<sub>2</sub> (sulfate) is supplied as a solid. Aqueous solutions of polymyxin E<sub>2</sub> (sulfate) can be prepared by directly dissolving the solid in aqueous buffers. The solubility of polymyxin E<sub>2</sub> (sulfate) in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

Polymyxin E<sub>2</sub> is a peptide antibiotic and a major constituent of the cationic lipopeptide antibiotic colistin (Item No. 17584) originally isolated from *B. polymyxa*.<sup>1</sup> It is active against the plant pathogenic bacteria *X. oryzae* (EC<sub>50</sub> = 0.21 µg/ml) and prevents and reverses rice bacterial leaf blight in greenhouse studies when applied at a concentration of 200 µg/ml.<sup>2</sup>

### References

1. Suzuki, T., Inouye, H., Fujikawa, K., *et al.* Studies on the chemical structure of colistin. I. Fractionation, molecular weight determination, amino acid and fatty acid composition. *J. Biochem.* **54(1)**, 25-33 (1963).
2. Yi, W., Chen, C., and Gan, X. Polymyxin B<sub>1</sub> and E<sub>2</sub> from *Paenibacillus polymyxa* Y-1 for controlling rice bacterial disease. *Front. Cell. Infect. Microbiol.* **12:866357**, (2022).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

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