



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Teixobactin

<b>Cat. No.:</b>	HY-P0230
<b>CAS No.:</b>	1613225-53-8
<b>Molecular Formula:</b>	C <sub>58</sub> H <sub>95</sub> N <sub>15</sub> O <sub>15</sub>
<b>Molecular Weight:</b>	1242.47
<b>Target:</b>	Antibiotic; Bacterial
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Teixobactin is a potent antibiotic. Teixobactin shows antibacterial activity for gram-negative bacteria. Teixobactin inhibits cell wall synthesis by binding to a highly conserved motif of lipid II and lipid III <sup>[1][2][3]</sup> .	
<b>In Vitro</b>	Teixobactin (0-128 µg/mL) shows antibacterial activity with a MIC value of 0.25 µg/mL for MRSA ATCC 33591 <sup>[2]</sup> . Teixobactin (0-24 h) shows antibacterial activity with MIC values of 5, 20 ng/mL for Clostridium difficile, Bacillus anthracis, respectively <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
<b>In Vivo</b>	Teixobactin (1-20 mg/kg; i.v.; once) shows antibacterial activity in mice <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	<b>Animal Model:</b>	Female CD-1 mice (MRSA ATCC33591) <sup>[3]</sup>
	<b>Dosage:</b>	1, 2.5, 5, 10, 20 mg/kg
	<b>Administration:</b>	i.v.; once; one hour post-infection
	<b>Result:</b>	Showed good antibacterial activity and all treated animals survived.

### REFERENCES

- [1]. Piddock LJ. Teixobactin, the first of a new class of antibiotics discovered by iChip technology? J Antimicrob Chemother. 2015 Oct;70(10):2679-80.
- [2]. Parmar A, et al. Teixobactin analogues reveal enduracididine to be non-essential for highly potent antibacterial activity and lipid II binding. Chem Sci. 2017 Dec 1;8(12):8183-8192.
- [3]. Ling LL, et al. A new antibiotic kills pathogens without detectable resistance. Nature. 2015 Jan 22;517(7535):455-9.

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

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