



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Cyclic L27-11

Cat. No.:	HY-P10548
CAS No.:	1221423-80-8
Molecular Formula:	C ₈₇ H ₁₄₁ N ₂₇ O ₁₅
Molecular Weight:	1805.22
Sequence:	cyclo(Thr-Trp-Leu-Lys-Lys-Arg-Arg-Trp-Lys-Lys-Ala-Lys-{d-Pro}-Pro)
Sequence Shortening:	cyclo(TWLKKRRWKKAK-{d-Pro}-P)
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Cyclic L27-11 is a cyclic peptide-like antibiotic with strong antibacterial activity against specific bacteria such as *Pseudomonas* sp. Cyclic L27-11 shows nanomolar antibacterial activity against *Pseudomonas* sp., especially *Pseudomonas aeruginosa*. Cyclic L27-11 interferes with the function of bacterial outer membrane protein LptD, preventing the normal transport of lipopolysaccharide (LPS), leading to the accumulation of membrane-like substances in bacterial cells, which in turn affects the survival of bacteria. Cyclic L27-11 can be used in the development of antibacterial agents^[1].

REFERENCES

[1]. Schmidt J, et al. Structural studies of β -hairpin peptidomimetic antibiotics that target LptD in *Pseudomonas* sp[J]. *Bioorganic & medicinal chemistry*, 2013, 21(18): 5806-5810.

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

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