



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic)



Sublancin

Chemical Properties

CAS No. :	207410-26-2
Formula:	C ₁₆ H ₂₅ N ₅ O ₅
Molecular Weight:	3878.38
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year

Biological Description

Description	Sublancin is an antimicrobial peptide that inhibits DNA replication, transcription, and translation without affecting membrane integrity, and suppresses glucose uptake through competition with the phosphotransferase system (PTS). Sublancin inhibits B. subtilis strain 168 ΔSPβ with a MIC of 0.312 μM [1][2].
In vitro	Sublancin (0-500 μM, 24 h) effectively inhibits methicillin-resistant Staphylococcus aureus (MRSA) with a minimum inhibitory concentration (MIC) of 15 μM, and demonstrates no cytotoxicity in RAW246.7 macrophages, mouse peritoneal macrophages, and human Caco-2 epithelial cells [1]. Cell Viability Assay [1] Cell Line: RAW246.7, Caco-2, P-Mac Concentration: 0-500 μM Incubation Time: 24 h Result: Maintained cell viability.
In vivo	Sublancin (0.5-4 mg/kg, administered intraperitoneally as a single dose) enhances the condition of mice infected with MRSA by inducing IL-6 and MCP-1, while mitigating intestinal inflammation through the inhibition of NF-κB activation [1]. Animal Model: Methicillin-resistant Staphylococcus aureus infected mice [1] Dosage: 0.5-4 mg/kg Administration: ip, single dose Result: Improved survival rate, reduced body weight loss.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2578 mL	1.2892 mL	2.5784 mL
5 mM	0.0516 mL	0.2578 mL	0.5157 mL
10 mM	0.0258 mL	0.1289 mL	0.2578 mL
50 mM	0.0052 mL	0.0258 mL	0.0516 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 36 Washington Street, Wellesley Hills, MA 02481