



# 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 HandelsgmbH

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## Candidalysin

<b>Cat. No.:</b>	HY-P10408	
<b>CAS No.:</b>	1906866-53-2	
<b>Molecular Formula:</b>	C <sub>153</sub> H <sub>266</sub> N <sub>38</sub> O <sub>38</sub> S <sub>2</sub>	
<b>Molecular Weight:</b>	3310.11	Ser-Ile-Ile-Gly-Ile-Ile-Met-Gly-Ile-Leu-Gly-Asn-Ile-Pro-Gln-Val-Ile-Gln-Ile-Ile-Met-Ser-Ile-Val-Lys-Ala-Phe-Lys-Gly-Asn-Lys
<b>Sequence:</b>	Ser-Ile-Ile-Gly-Ile-Ile-Met-Gly-Ile-Leu-Gly-Asn-Ile-Pro-Gln-Val-Ile-Gln-Ile-Ile-Met-Ser-Ile-Val-Lys-Ala-Phe-Lys-Gly-Asn-Lys	
<b>Sequence Shortening:</b>	SIIGIIMGILGNIPQVIQIIMSIVKAFKGNK	
<b>Target:</b>	EGFR; MMP; Calcium Channel	
<b>Pathway:</b>	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel; Neuronal Signaling	
<b>Storage:</b>	Sealed storage, away from moisture	
	Powder -80°C 2 years	
	-20°C 1 year	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 25 mg/mL (7.55 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	0.3021 mL	1.5105 mL	3.0210 mL
	5 mM	0.0604 mL	0.3021 mL	0.6042 mL
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Candidalysin is a cytolytic peptide toxin, which is initially isolated from *Candida albicans* and exhibits virulent and avirulent characters. Candidalysin activates epithelial cell signaling pathways by interacting with the epithelial growth factor receptor (EGFR) of host cells, activates matrix metalloproteinase (MMP) and calcium flux, resulting in inflammatory responses and recruitment of immune cells. Candidalysin exhibits cytotoxicity by dealing membran damage to host cells<sup>[1]</sup>.

### REFERENCES

[1]. Naglik JR, et al., Candidalysin: discovery and function in *Candida albicans* infections. *Curr Opin Microbiol.* 2019 Dec;52:100-109.

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

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