



# 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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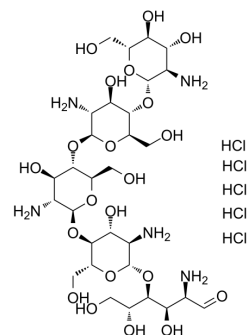
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## Chitopentaose pentahydrochloride

<b>Cat. No.:</b>	HY-N7697A
<b>CAS No.:</b>	117467-64-8
<b>Molecular Formula:</b>	C <sub>30</sub> H <sub>62</sub> Cl <sub>5</sub> N <sub>5</sub> O <sub>21</sub>
<b>Molecular Weight:</b>	1006.1
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 250 mg/mL (248.48 mM; Need ultrasonic)

Preparing Stock Solutions	Mass		1 mg	5 mg	10 mg
	Solvent Concentration				
	1 mM		0.9939 mL	4.9697 mL	9.9394 mL
	5 mM		0.1988 mL	0.9939 mL	1.9879 mL
	10 mM		0.0994 mL	0.4970 mL	0.9939 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Chitopentaose pentahydrochloride is a chitosan oligosaccharide with anti-inflammatory effect. Chitopentaose pentahydrochloride is a substrate of gene encoding chitinase B (FjchiB)<sup>[1][2]</sup>.

### REFERENCES

- [1]. Qini Zhao, et al. Chitoheptaose Promotes Heart Rehabilitation in a Rat Myocarditis Model by Improving Antioxidant, Anti-Inflammatory, and Antiapoptotic Properties. *Oxid Med Cell Longev.* 2020 Apr 11;2020:2394704.
- [2]. Papa Rao Vaikuntapu, et al. Applicability of endochitinase of *Flavobacterium johnsoniae* with transglycosylation activity in generating long-chain chitooligosaccharides. *Int J Biol Macromol.* 2018 Oct 1;117:62-71.

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

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