



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

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) 

α -Conotoxin Im-I

Cat. No.:	HY-P1270		
CAS No.:	156467-85-5		
Molecular Formula:	C ₅₂ H ₇₈ N ₂₀ O ₁₅ S ₄		
Molecular Weight:	1351.56	Gly-Cys-Cys-Ser-Asp-Pro-Arg-Cys-Ala-Trp-Arg-Cys-NH ₂ (Disulfide bridge:Cys2-Cys8;Cys3-Cys12)	
Sequence:	Gly-Cys-Cys-Ser-Asp-Pro-Arg-Cys-Ala-Trp-Arg-Cys-NH ₂ (Disulfide bridge:Cys2-Cys8;Cys3-Cys12)		
Sequence Shortening:	GCCSDPRCAWRC-NH ₂ (Disulfide bridge:Cys2-Cys8;Cys3-Cys12)		
Target:	nAChR		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	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 : 100 mg/mL (73.99 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	0.7399 mL	3.6994 mL	7.3989 mL
5 mM	0.1480 mL	0.7399 mL	1.4798 mL
10 mM	0.0740 mL	0.3699 mL	0.7399 mL

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

BIOLOGICAL ACTIVITY

Description

α -Conotoxin Im-I is a selective $\alpha 7/\alpha 9$ nAChR antagonist, blocking $\alpha 7$ nicotinic receptors with the highest apparent affinity, while having an 8-fold lower affinity for homomeric $\alpha 9$ nicotinic receptors. α -Conotoxin Im-I is toxic and induces seizures in rodents. α -Conotoxin Im-I is a tool for studying neuronal nAChR^{[1][2]}.

IC₅₀ & Target

$\alpha 7/\alpha 9$ nAChR^{[1][2]}.

REFERENCES

[1]. Johnson DS, et al. alpha-Conotoxin ImI exhibits subtype-specific nicotinic acetylcholine receptor blockade: preferential inhibition of homomeric alpha 7 and alpha 9 receptors.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA