



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### 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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

## $\alpha$ -Dendrotoxin

|                      |   |
|----------------------|---|
| Cat. No.:            | HY-P2707  |
| CAS No.:             | 74504-53-3  |
| Molecular Formula:   | C <sub>305</sub> H <sub>478</sub> N <sub>98</sub> O <sub>84</sub> S <sub>6</sub>  |
| Molecular Weight:    | 7072  |
| Sequence:            | {Pyr}-Pro-Arg-Arg-Lys-Leu-Cys-Ile-Leu-His-Arg-Asn-Pro-Gly-Arg-Cys-Tyr-Asp-Lys-Ile-Pro-Ala-Phe-Tyr-Tyr-Asn-Gln-Lys-Lys-Lys-Gln-Cys-Glu-Arg-Phe-Asp-Trp-Ser-Gly-Cys-Gly-Gly-Asn-Ser-Asn-Arg-Phe-Lys-Thr-Ile-Glu-Glu-Cys-Arg-Arg-Thr-Cys-Ile-Gly |
| Sequence Shortening: | {Pyr}-PRRKLCLHRNPGRCYDKIPAFYNNQKKKQCERFDWSGCGGNSNRFKTIIECRRTCIG   |
| Target:              | Sodium Channel; Potassium Channel   |
| Pathway:             | Membrane Transporter/Ion Channel  |
| Storage:             | Please store the product under the recommended conditions in the Certificate of Analysis.   |

### BIOLOGICAL ACTIVITY

#### Description

$\alpha$ -Dendrotoxin ( $\alpha$ -DTX) is a small molecule peptide neurotoxin isolated from the venom of the African green mamba snake (*Dendroaspis angusticeps*).  $\alpha$ -Dendrotoxin is also a KV1.1, KV1.2, KV1.6 and ASIC channel blocker.  $\alpha$ -Dendrotoxin blocks potassium channels, lowers the threshold of neuronal action potentials, and increases the frequency of action potentials, thereby enhancing neuronal excitability.  $\alpha$ -Dendrotoxin can be used in neurotoxicology research<sup>[1]</sup>.

### REFERENCES

[1]. Bekkers J M, et al. Modulation of excitability by  $\alpha$ -dendrotoxin-sensitive potassium channels in neocortical pyramidal neurons[J]. Journal of Neuroscience, 2001, 21(17): 6553-6560.

**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