

ω-Conotoxin SO3

Cat. No.:	HY-P5143
CAS No.:	441284-32-8
Molecular Formula:	C ₁₀₀ H ₁₆₆ N ₃₆ O ₃₁ S ₆
Molecular Weight:	2561
Sequence:	Cys-Lys-Ala-Ala-Gly-Lys-Pro-Cys-Ser-Arg-Ile-Ala-Tyr-Asn-Cys-Cys-Thr-Gly-Ser-Cys-Arg-Ser-Gly-Lys-Cys-NH ₂ (Disulfide bridge: Cys1-Cys16, Cys8-Cys20 and Cys15-Cys25)
Sequence Shortening:	CKAAGKPCSRIAYNCCTGSCRSKGC-NH ₂ (Disulfide bridge: Cys1-Cys16, Cys8-Cys20 and Cys15-Cys25)
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

ω-Conotoxin SO3 is a blocker of N-type voltage-sensitive calcium channel. ω-Conotoxin SO3 is an analgesic ω-conotoxin that can be isolated from the venom of *C. striatus*^{[1][2]}.

REFERENCES

- [1]. Wen L, et al, a new O-superfamily conopeptide derived from *Conus striatus*, selectively inhibits N-type calcium currents in cultured hippocampal neurons. *Br J Pharmacol.* 2005 Jul;145(6):728-39.
- [2]. Yan LD, et al. Spinal antinociception of synthetic omega-conotoxin SO-3, a selective N-type neuronal voltage-sensitive calcium channel blocker, and its effects on morphine analgesia in chemical stimulus tests in rodent. *Eur J Pharmacol.* 2010 Jun 25;636(1-3):73-81.

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

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