

Fasciculin-I

Cat. No.:	HY-P5798
Molecular Formula:	C ₂₈₁ H ₄₄₁ N ₈₇ O ₉₀ S ₁₀
Molecular Weight:	6798.69
Sequence:	Thr-Met-Cys-Tyr-Ser-His-Thr-Thr-Thr-Ser-Arg-Ala-Ile-Leu-Thr-Asn-Cys-Gly-Glu-Asn-Ser-Cys-Tyr-Arg-Lys-Ser-Arg-Arg-His-Pro-Pro-Lys-Met-Val-Leu-Gly-Arg-Gly-Cys-Gly-Cys-Pro-Pro-Gly-Asp-Asp-Tyr-Leu-Glu-Val-Lys-Cys-Cys-Thr-Ser-Pro-Asp-Lys-Cys-Asn-Tyr (Disulfide bridge:Cys3-Cys22;Cys17-Cys39;Cys41-Cys52;Cys53-Cys59)
Sequence Shortening:	TMCYSHTTTSRAILTNCGENSCYRKSRRHPPKMVLGRGCGCPPGDDYLEVKCCTSPDKCNY (Disulfide bridge:Cys3-Cys22;Cys17-Cys39;Cys41-Cys52;Cys53-Cys59)
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Fasciculin-I is isolated from the mambas venom. Fasciculin-I exerts its toxic effects by inhibiting acetylcholinesterase (AChE). Fasciculin-I blocks α -neurotoxins of nicotinic acetylcholine receptors and cardiac toxins that interact with cell membranes [1].

REFERENCES

[1]. van den Born HK, et al. Theoretical analysis of the structure of the peptide fasciculin and its docking to acetylcholinesterase. Protein Sci. 1995 Apr;4(4):703-15.

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

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