

w-Conotoxin SVIB

Cat. No.:	HY-P3682
CAS No.:	150433-82-2
Molecular Formula:	C ₁₀₅ H ₁₇₆ N ₃₈ O ₃₆ S ₆
Molecular Weight:	2739.14
Sequence Shortening:	CKLKGQSCRKTSYDCCSGSGRSGKC-NH2 (Disulfide bridge: Cys1-Cys16;Cys8-Cys20;Cys15-Cys26)
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	w-Conotoxin SVIB is a peptide toxin, it can be isolated from Conus venoms. w-Conotoxin SVIB inhibits twitch response with an IC ₅₀ value of 37 nM. w-Conotoxin SVIB induces respiratory distress and it can be lethal to mice at a high concentration ^[1] [2].
IC₅₀ & Target	IC ₅₀ : 37 nM (twitch response at 0.1 Hz) ^[2]
In Vitro	w-Conotoxin SVIB (0.1-1000 nM; 20 min) inhibits twitch response at 0.1 Hz with an IC ₅₀ value of 37 nM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	w-Conotoxin SVIB (20 pmol/g; s.c. once) causes paralysis and death in fish ^[1] . w-Conotoxin SVIB causes mouse respiratory distress at around 70 pmol/g and it is lethal to mouse at around 300 pmol/g ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ramilo CA, et al. Novel alpha- and omega-conotoxins from Conus striatus venom. Biochemistry. 1992 Oct 20;31(41):9919-26.

[2]. Hong SJ, et al. Inhibition of neuromuscular transmission in the myenteric plexus of guinea-pig ileum by omega-conotoxins GVIA, MVIIA, MVIC and SVIB. Br J Pharmacol. 1996 Jun;118(3):797-803.

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

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