SNX-482

Cat. No.:	HY-P1074
CAS No.:	203460-30-4
Molecular Formula:	$C_{192}H_{274}N_{52}O_{60}S_7$
Molecular Weight:	4495
Sequence:	Gly-Val-Asp-Lys-Ala-Gly-Cys-Arg-Tyr-Met-Phe-Gly-Gly-Cys-Ser-Val-Asn-Asp-Asp-Cys-Cys-Pro-Arg-Leu-Gly-Cys-His-Ser-Leu-Phe-Ser-Tyr-Cys-Ala-Trp-Asp-Leu-Thr-Phe-Ser-Asp (Disulfide bridge:Cys7-Cys21;Cys14-Cys26;Cys20-Cys33)
Sequence Shortening:	GVDKAGCRYMFGGCSVNDDCCPRLGCHSLFSYCAWDLTFSD (Disulfide bridge:Cys7-Cys21;Cys14-Cys26;Cys20-Cys33)
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	SNX-482, a peptidyl toxin of the spider Hysterocrates gigas, is a potent, high affinity, selective and voltage-dependent R-type $Ca_V2.3$ channel blocker with an IC_{50} of 30 nM. SNX-482 has antinociceptive effect[1][2][3].
IC_{50} & Target	IC50: 30 nM (CaV2.3 channel)[2]

REFERENCES

[1]. R Newcomb, et al. Selective peptide antagonist of the class E calcium channel from the venom of the tarantula Hysterocrates gigas. Biochemistry. 1998 Nov 3;37(44):15353-62.

[2]. E Bourinet, et al. Interaction of SNX482 with domains III and IV inhibits activation gating of alpha(1E) (Ca(V)2.3) calcium channels. Biophys J. 2001 Jul;81(1):79-88.

[3]. Elizabeth A Matthews, et al. The Cav2.3 calcium channel antagonist SNX-482 reduces dorsal horn neuronal responses in a rat model of chronic neuropathic pain. Eur J Neurosci. 2007 Jun;25(12):3561-9.

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