

## SNX-482

Cat. No.:	HY-P1074
CAS No.:	203460-30-4
Molecular Formula:	C <sub>192</sub> H <sub>274</sub> N <sub>52</sub> O <sub>60</sub> S <sub>7</sub>
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:	GVDKAGCRYMFGGCSVNDCCPRLGCHSLFSYCAWDLTFSD (Disulfide bridge:Cys7-Cys21;Cys14-Cys26;Cys20-Cys33)
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

### BIOLOGICAL ACTIVITY

Description	SNX-482, a peptidyl toxin of the spider <i>Hysterocrates gigas</i> , is a potent, high affinity, selective and voltage-dependent R-type Ca <sub>v</sub> 2.3 channel blocker with an IC <sub>50</sub> of 30 nM. SNX-482 has antinociceptive effect <sup>[1][2][3]</sup> .
IC <sub>50</sub> & Target	IC50: 30 nM (CaV2.3 channel) <sup>[2]</sup>

### 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.

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

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