

## AdTx1

<b>Cat. No.:</b>	HY-P1442
<b>Molecular Formula:</b>	C <sub>310</sub> H <sub>481</sub> N <sub>87</sub> O <sub>100</sub> S <sub>8</sub>
<b>Molecular Weight:</b>	7283.18
<b>Sequence:</b>	Leu-Thr-Cys-Val-Thr-Ser-Lys-Ser-Ile-Phe-Gly-Ile-Thr-Thr-Glu-Asp-Cys-Pro-Asp-Gly-Gln-Asn-Leu-Cys-Phe-Lys-Arg-Arg-His-Tyr-Val-Val-Pro-Lys-Ile-Tyr-Asp-Ser-Thr-Arg-Gly-Cys-Ala-Ala-Thr-Cys-Pro-Ile-Pro-Glu-Asn-Tyr-Asp-Ser-Ile-His-Cys-Cys-Lys-Thr-Asp-Lys-Cys-Asn-Glu (Disulfide bonds: Cys3-Cys24, Cys17-Cys42, Cys46-Cys57, Cys58-Cys63)
<b>Sequence Shortening:</b>	LTCVTSKSFITTEDCPDGQNLCKFKRRHYVWPKIYDSTRGCAATCPIPENYDSIHCKTDKCNE (Disulfide bonds: Cys3-Cys24, Cys17-Cys42, Cys46-Cys57, Cys58-Cys63)
<b>Target:</b>	Adrenergic Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	AdTx1 is a selective $\alpha$ 1A-adrenoceptor antagonist ( $K_i$ : 0.35 nM). AdTx1 can be used for research of benign prostatic hyperplasia <sup>[1]</sup> .
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### REFERENCES

[1]. Quinton L, et al. Isolation and pharmacological characterization of AdTx1, a natural peptide displaying specific insurmountable antagonism of the  $\alpha$ 1A-adrenoceptor. *Br J Pharmacol.* 2010 Jan 1;159(2):316-25.

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

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