# μ-TRTX-Hd1a

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| **Cat. No.:** | HY-P5790 |
| **Molecular Formula:** | $C_{160}H_{246}N_{46}O_{51}S_6$ |
| **Molecular Weight:** | 3822.33 |
| **Sequence:** | Ala-Cys-Leu-Gly-Phe-Gly-Lys-Ser-Cys-Asn-Pro-Ser-Asn-Asp-Gln-Cys-Cys-Lys-Ser-Ser-Ser-Leu-Ala-Cys-Ser-Thr-Lys-His-Lys-Trp-Cys-Lys-Tyr-Glu-Leu (Disulfide bridge:Cys2-Cys17;Cys9-Cys24;Cys16-Cys31) |
| **Sequence Shortening:** | ACLGFGKSCNPSNDQCCKSSSLACSTKHKWCKYEL (Disulfide bridge:Cys2-Cys17;Cys9-Cys24;Cys16-Cys31) |
| **Target:** | Sodium Channel |
| **Pathway:** | Membrane Transporter/Ion Channel |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |

## BIOLOGICAL ACTIVITY

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| **Description** | μ-TRTX-Hd1a, a spider venom, is a selective NaV 1.7 inhibitor. μ-TRTX-Hd1a is a gating modifier that inhibits human NaV 1.7 by interacting with the S3b-S4 paddle motif in channel domain II[1]. |

## REFERENCES

[1]. Julie K Klint, et al. Seven novel modulators of the analgesic target NaV 1.7 uncovered using a high-throughput venom-based discovery approach. Br J Pharmacol. 2015 May;172(10):2445-58.



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