

## GTx1-15

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| <b>Cat. No.:</b>            | HY-P5793   |
| <b>Molecular Formula:</b>   | C <sub>176</sub> H <sub>271</sub> N <sub>53</sub> O <sub>45</sub> S <sub>7</sub>   |
| <b>Molecular Weight:</b>    | 4073.82  |
| <b>Sequence:</b>            | Asp-Cys-Leu-Gly-Phe-Met-Arg-Lys-Cys-Ile-Pro-Asp-Asn-Asp-Lys-Cys-Cys-Arg-Pro-Asn-L<br>eu-Val-Cys-Ser-Arg-Thr-His-Lys-Trp-Cys-Lys-Tyr-Val-Phe-NH <sub>2</sub> (Disulfide bridge:Cys2-C<br>ys17;Cys9-Cys23;Cys16-Cys30) |
| <b>Sequence Shortening:</b> | DCLGFMKICIPDNDKCCRPNLVCSRTHKWCKYVF-NH <sub>2</sub> (Disulfide bridge:Cys2-Cys17;Cys<br>9-Cys23;Cys16-Cys30)  |
| <b>Target:</b>              | Sodium Channel; Calcium Channel  |
| <b>Pathway:</b>             | Membrane Transporter/Ion Channel; Neuronal Signaling   |
| <b>Storage:</b>             | Please store the product under the recommended conditions in the Certificate of<br>Analysis.   |

### BIOLOGICAL ACTIVITY

|                                     |  |        |                 |
|-------------------------------------|--|--------|-----------------|
| <b>Description</b>                  | GTx1-15 is an inhibitor cystine knot (ICK) peptide that inhibits the voltage-dependent calcium channel Cav3.1 and the voltage-dependent sodium channels Nav1.3 and Nav1.7 <sup>[1]</sup> . |        |                 |
| <b>IC<sub>50</sub> &amp; Target</b> | Nav1.1   | Nav1.7 | Calcium Channel |

### REFERENCES

[1]. Tadashi Kimura. Stability and Safety of Inhibitor Cystine Knot Peptide, GTx1-15, from the Tarantula Spider Grammostola rosea. Toxins (Basel). 2021 Sep 3;13(9):621.

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

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