

## GaTx2

### **GaTx2: Toxin Properties**

**GaTx2** (gating modifier of anion channels 2) was isolated from the venom of *Leiurus quinquestriatus hebraeus*. **GaTx2** is the most potent peptide inhibitor of ClC-2 chloride channel ever described.  $K_d$  value is close to 20 pM. **GaTx2** slows ClC-2 activation but without altering channel conductance. The effect is voltage-dependent. This inhibitory effect was highlighted on rabbit ClC-2 channels expressed in oocytes. It has no effect on ClC-0, ClC-1, ClC-3, ClC-4, CFTR, GABA<sub>C</sub>, Xenopus Cl<sub>Ca</sub>, Shaker B or Kv1.2 channels. Structurally, **GaTx2** is composed of two  $\beta$ -strands and one  $\alpha$ -helix. This peptide is also called Leuropeptide II. Bears 89, 93 and 96% identity with OdK1, neurotoxin PO1 and leuropeptide III, respectively.

### **Product Specifications**

**AA sequence:** H-Val-Ser-Cys<sup>3</sup>-Glu-Asp-Cys<sup>6</sup>-Pro-Asp-His-Cys<sup>10</sup>-Ser-Thr-Gln-Lys-Ala-Arg-Ala-Lys-Cys<sup>19</sup>-Asp-Asn-Asp-Lys-Cys<sup>24</sup>-Val-Cys<sup>26</sup>-Glu-Pro-Ile-OH  
(Disulfide bonds between Cys<sup>3</sup>-Cys<sup>19</sup>, Cys<sup>6</sup>-Cys<sup>24</sup>, and Cys<sup>10</sup>-Cys<sup>26</sup>)

**Length (aa):** 29

**Formula:** C<sub>125</sub>H<sub>199</sub>N<sub>39</sub>O<sub>47</sub>S<sub>6</sub>

**Molecular Weight:** 3191.25 Da

**Appearance:** White lyophilized solid

**Solubility:** water and saline buffer

**CAS number:** not available

**Source:** Synthetic

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