**Product Name:** ω-Agatoxin TK  
**CAS Number:** 158484-42-5  
**Catalog No.:** 2802  
**Batch No.:** 3

1. **PHYSICAL AND CHEMICAL PROPERTIES**

   - **Batch Molecular Formula:** $C_{215}H_{337}N_{65}O_{70}S_{10}$
   - **Batch Molecular Weight:** 5273.02
   - **Physical Appearance:** White lyophilised solid
   - **Net Peptide Content:** 100%
   - **Solubility:** Soluble in water
   - **Storage:** Desiccate at -20°C

2. **ANALYTICAL DATA**

   - **HPLC:** Shows >99% purity

3. **AMINO ACID ANALYSIS DATA**

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<th>Actual</th>
<th>Amino Acid</th>
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**Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use**
Product Name: ω-Agatoxin TK  
Catalog No.: 2802  
Batch No.: 3

Description:
Selective blocker of Ca\textsubscript{v.2.1} P/Q-type calcium channels.

Physical and Chemical Properties:
Batch Molecular Formula: C\textsubscript{216}H\textsubscript{337}N\textsubscript{85}O\textsubscript{70}S\textsubscript{10}  
Batch Molecular Weight: 5273.02  
Physical Appearance: White lyophilised solid

Peptide Sequence:
Glu-Asp-Asn-Cys-Ile-Ala-Glu-Asp-Tyr-Gly-Lys-Cys-Thr-Trp-Gly-Gly-Thr-Lys-Cys-Cys-Arg-Gly-
Arg-Pro-Cys-Arg-Cys-Ser-Met-Ile-Gly-Thr-Asn-
Cys-Glu-Cys-Thr-Pro-Arg-Leu-Ile-Met-Glu-Gly-
Leu-Ser-Phe-Ala

Storage: Desiccate at -20°C

Solubility & Usage Info:
Soluble in water

Net Peptide Content: 100% (Remaining weight made up of counterions and residual water).

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 μm filter to remove potential bacterial contamination whenever possible.

References:
