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 solid
Solubility: Soluble in water
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 95.0 % purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

<table>
<thead>
<tr>
<th>Amino Acid</th>
<th>Theoretical</th>
<th>Actual</th>
<th>Amino Acid</th>
<th>Theoretical</th>
<th>Actual</th>
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<td>Met</td>
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<td>2.00</td>
<td>Val</td>
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Product Name: ω-Agatoxin TK
CAS Number: 158484-42-5

Description:
ω-Agatoxin TK is a selective blocker of Ca\textsubscript{v}2.1 P/Q-type calcium channels.

Physical and Chemical Properties:
- Batch Molecular Formula: C\textsubscript{210}H\textsubscript{337}N\textsubscript{65}O\textsubscript{70}S\textsubscript{10}
- Batch Molecular Weight: 5273.02
- Physical Appearance: White solid

Peptide Sequence:

Storage: Store at -20°C

Solubility & Usage Info:
- Soluble in water

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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\textmu m filter to remove potential bacterial contamination whenever possible.

References: