

Certificate of Analysis

www.tocris.com

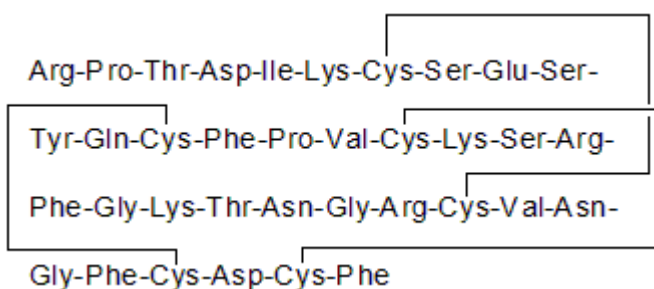
Product Name: BeKm 1
CAS Number: 524962-01-4

Catalog No.: 5929

Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇₄H₂₆₁N₅₁O₅₂S₆
Batch Molecular Weight: 4091.65
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence:



2. ANALYTICAL DATA

HPLC: Shows 97.9% purity
Mass Spectrum: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Name: BeKm 1
CAS Number: 524962-01-4

Catalog No.: 5929 **Batch No.:** 1

Description:

Potent and selective K_v11.1 (hERG) channel blocker. Selective for K_v11.1 over a panel of 14 other potassium channels. Dose-dependently prolongs QTc interval in isolated rabbit heart.

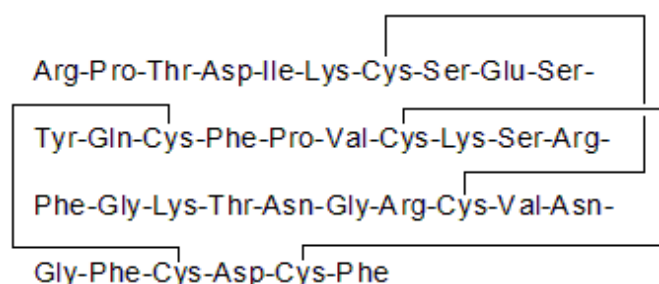
Physical and Chemical Properties:

Batch Molecular Formula: C₁₇₄H₂₆₁N₅₁O₅₂S₆

Batch Molecular Weight: 4091.65

Physical Appearance: White lyophilised solid

Peptide Sequence:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml 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.

Counter Ion: TFA

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:

Qu et al (2011) BeKm-1, a peptide inhibitor of human ether-a-go-go-related gene potassium currents, prolongs QTc intervals in isolated rabbit heart. *J.Pharmacol.Exp.Ther.* **337** 2. PMID: 21205913.

Korolkova et al (2002) New binding site on common molecular scaffold provides HERG channel specificity of scorpion toxin BeKm-1. *J.Biol. Chem.* **277** 43104. PMID: 12151390.

Korolkova et al (2001) An ERG channel inhibitor from the scorpion *Buthus eupeus*. *J.Biol. Chem.* **276** 9868. PMID: 11136720.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel: +1 612 379 2956