

Certificate of Analysis

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Product Name: Iberiotoxin
CAS Number: 129203-60-7

Catalog No.: 1086 **Batch No.:** 30

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇₉H₂₇₄N₅₀O₅₅S₇
Batch Molecular Weight: 4230
Physical Appearance: White solid
Counter Ion: TFA
Solubility: Soluble to 0.70 mg/ml in water
Storage: Store at -20°C
Peptide Sequence:

pGlu-Phe-Thr-Asp-Val-Asp-Cys-Ser-Val-Ser-
Lys-Glu-Cys-Trp-Ser-Val-Cys-Lys-Asp-Leu-
Phe-Gly-Val-Asp-Arg-Gly-Lys-Cys-Met-Gly-
Lys-Lys-Cys-Arg-Cys-Tyr-Gln

2. ANALYTICAL DATA

HPLC: Shows 95.4% purity
Mass Spectrum: Consistent with structure

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

Product Name: Iberiotoxin

Catalog No.: 1086

Batch No.: 30

CAS Number: 129203-60-7

Description:

Iberiotoxin is a selective blocker of the big conductance Ca^{2+} -activated K^{+} channel.

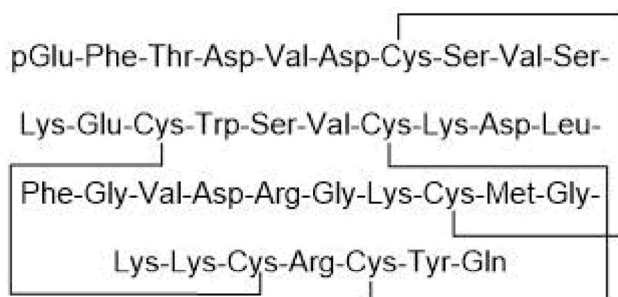
Physical and Chemical Properties:

Batch Molecular Formula: $\text{C}_{179}\text{H}_{274}\text{N}_{50}\text{O}_{55}\text{S}_7$

Batch Molecular Weight: 4230

Physical Appearance: White solid

Peptide Sequence:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 0.70 mg/ml in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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 $45\text{--}60^{\circ}\text{C}$ 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 $0.2\ \mu\text{m}$ filter to remove potential bacterial contamination whenever possible.

References:

Suarez-Kurtz et al (1991) Effects of charybdotoxin and iberiotoxin on the spontaneous motility and tonus of different guinea-pig smooth muscle tissues. *J.Pharmacol.Exp.Ther.* **259** 439. PMID: 1717682.

Galvez et al (1990) Purification and characterization of a unique, potent, peptidyl probe for the high conductance calcium-activated potassium channel from venom of the scorpion *Buthus tamulus*. *J.Biol.Chem.* **265** 11083. PMID: 1694175.

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