Print Date: Apr 22nd 2022

Certificate of Analysis

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Product Name: α-Conotoxin AulB

CAS Number: 216299-21-7

TOCRIS

a biotechne brand

Catalog No.: 3120	Batch No.: 7
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1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:
Batch Molecular Weight:
Physical Appearance:
Counter Ion:
Solubility:
Storage:
Peptide Sequence:

C ₆₅ H ₈₉ N ₁₇ O ₂₁ S ₄
1572.76
White lyophilised solid
Acetate
Soluble to 5 mg/ml in water
Store at -20°C
Gly-Cys-Cys-Ser-Tyr-Pro-Pro-Cys-Phe-Ala
Thr-Asn-Pro-Asp-Cys-NH ₂

2. ANALYTICAL DATA

HPLC:

Mass Spectrum:

Shows 96.6% purity Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Aci	d Theoretica	Actual	Amino Acio	d Theoretica	Actual
Ala	1.00	0.99	Lys		
Arg			Met		
Asx	2.00	2.01	Phe	1.00	0.96
Cys	4.00	Detected	Pro	3.00	3.05
Glx			Ser	1.00	1.04
Gly	1.00	0.99	Thr	1.00	1.03
His			Trp		
lle			Tyr	1.00	0.96
Leu			Val		

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

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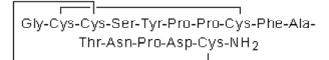
Description:

 α -Conotoxin AuIB is a selective antagonist of α 3 β 4 nicotinic acetylcholine receptors. Displays > 100-fold selectivity over other receptor subunit combinations including α 2 β 2, α 2 β 4, α 3 β 2, α 4 β 2, α 4 β 4 and α 1 β 1 γ 5.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{65}H_{89}N_{17}O_{21}S_4$ Batch Molecular Weight: 1572.76 Physical Appearance: White Iyophilised solid

Peptide Sequence:



Storage: Store at -20°C

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Solubility & Usage Info:

Soluble to 5 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.

Catalog No.: 3120

Counter Ion: Acetate

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 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 μ m filter to remove potential bacterial contamination whenever possible.

Other Information:

This is a dual-use item with associated conditions of supply; the relevant licence/documentation from the appropriate governing body will be required.

Licensing Information:

Sold under license from University of Utah

References:

Park *et al* (2006) An α 3 β 4 subunit combination acts as a major functional nicotinic acetylcholine receptor in male rat pelvic ganglion neurons. Pflugers Arch. **452** 775. PMID: 16715294.

Nai et al (2003) Relating neuronal nicotinic acetylcholine receptor subtypes defined by subunit composition and channel function. Mol.Pharmacol. 63 311. PMID: 12527802.

Luo *et al* (1998) α-Conotoxin AulB selectively blocks α3β4 nicotinic acetylcholine receptors and nicotine-evoked NE release. J.Neurosci. **18** 8571. PMID: 9786965.

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