

Title (en)  
CONOTOXIN PEPTIDES

Title (de)  
CONOTOXIN-PEPTIDE

Title (fr)  
PEPTIDES DE CONOTOXINE

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Application  
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Abstract (en)  
[origin: WO9633206A1] The present invention is directed to conotoxin peptides, specifically delta -conotoxin PVIA and mu -conotoxin PIIIA. delta -conotoxin PVIA is found in the Eastern Pacific fish hunting species of cone snails Conus purpurascens. It consists of 29 amino acid residues of the sequence: Glu-Ala-Cys-Tyr-Ala-Xaa1-Gly-Thr-Phe-Cys-Gly-Ile-Lys-Xaa2-Gly-Leu-Cys-Cys-Ser-Glu-Phe-Cys-Leu-Pro-Gly-Val-Cys-Pro-Gly (SEQ ID NO:1) where Xaa1 or Xaa2 is Pro or 4-trans-hydroxyproline. The C-terminus may be free or amidated. delta -conotoxin PVIA is vertebrate specific and targets voltage-sensitive Na<+> channels. mu -conotoxin PIIIA is also found in Conus purpurascens. It consists of 22 amino acid residues of the sequence: Xaa1-Arg-Leu-Cys-Cys-Gly-Phe-Xaa2-Lys-Ser-Cys-Arg-Ser-Arg-Gln-Cys-Lys-Xaa2-His-Arg-Cys-Cys (SEQ ID NO:2) where Xaa1 represents pyroglutamate or glutamine and Xaa2 represents 4-trans-hydroxyproline or proline. This latter peptide targets sodium channels.  
[origin: WO9633206A1] The present invention is directed to conotoxin peptides, specifically delta -conotoxin PVIA and mu -conotoxin PIIIA. delta -conotoxin PVIA is found in the Eastern Pacific fish hunting species of cone snails Conus purpurascens. It consists of 29 amino acid residues of the sequence: Glu-Ala-Cys-Tyr-Ala-Xaa1-Gly-Thr-Phe-Cys-Gly-Ile-Lys-Xaa2-Gly-Leu-Cys- Cys-Ser-Glu-Phe-Cys-Leu-Pro-Gly-Val-Cys-Pro-Gly (SEQ ID NO:1) where Xaa1 or Xaa2 is Pro or 4-trans-hydroxyproline. The C-terminus may be free or amidated. delta -conotoxin PVIA is vertebrate specific and targets voltage-sensitive Na<+> channels. mu -conotoxin PIIIA is also found in Conus purpurascens. It consists of 22 amino acid residues of the sequence: Xaa1-Arg-Leu-Cys-Cys-Gly-Phe-Xaa2-Lys-Ser-Cys-Arg-Ser-Arg-Gln-Cys-Lys- Xaa2-His-Arg-Cys-Cys (SEQ ID NO:2) where Xaa1 represents pyroglutamate or glutamine and Xaa2 represents 4-trans-hydroxyproline or proline. This latter peptide targets sodium channels.

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