

Title (en)

BIOLOGICALLY ACTIVE PEPTIDES WITH REDUCED TOXICITY IN ANIMALS AND A METHOD FOR PREPARING SAME

Title (de)

BIOLOGISCH AKTIVE PEPTIDE MIT VERMINDERTER TOXIZITÄT IN TIEREN UND EIN VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)

PEPTIDES BIOLOGIQUEMENT ACTIFS A TOXICITE REDUITE CHEZ L'ANIMAL ET PROCEDES D'ELABORATION

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Application

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Abstract (en)

[origin: WO9903488A2] The present invention relates to biologically active peptides with reduced toxicity and methods of preparing them. The peptides of the invention, which can be unsubstituted or N-terminal substituted have formula (I), wherein X is a biologically active amphiphilic ion channel-forming peptide or protein, T is a lipophilic moiety or hydrogen, and W is T or hydrogen. Preferably T is formula (II), wherein R is a hydrocarbon (alkyl or aromatic or alkylaromatic) having at least 2 and no more than 10 carbon atoms. T is preferably an octanoyl group. The peptides and proteins of the invention have improved antimicrobial and anti-tumor biological activity while exhibiting reduced toxicity. A preferred method of reducing toxicity involves the formation of related methane sulfonate derivatives or analogues. Additionally, the compounds of the invention may be used to treat sepsis, septic shock, and lung infections, such as those occurring in cystic fibrosis.

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