

Title (en)

NOVEL PEPTIDE-HOMOLOGUES FOR INHIBITING BETA1-ADRENOCEPTOR ANTIBODIES

Title (de)

NEUE PEPTIDHOMOLOGE ZUM INHIBIEREN VON BETA1-ADRENOZEPTOR-ANTIKÖRPERN

Title (fr)

NOUVEAUX HOMOLOGUES PEPTIDIQUES POUR L'INHIBITION D'ANTICORPS DIRIGÉS CONTRE L'ADRÉNORÉCEPTEUR BÊTA1

Publication

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Application

**EP 10706168 A 20100127**

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Abstract (en)

[origin: WO2010086337A1] The present invention relates to novel  $\beta$ -AR homologous cyclopeptide-mutants comprising only two cysteine residues able to form an intramolecular linkage and comprising an  $\alpha$ -aminobutyric acid (ABu) residue, or an analogue thereof, which replaces the cysteine residue corresponding to cysteine 216 of the human  $\beta$ 1-AR amino-acid sequence. The present invention further relates to linear peptides that can form these cyclopeptide-mutants and to nucleic acid molecules encoding peptides from which these cyclopeptide-mutants and linear peptides can be manufactured. Moreover, vectors comprising the nucleic acid molecules and recombinant host cells comprising the nucleic acid molecules or vectors are provided. Further, a method for producing the disclosed cyclopeptide-mutants is provided. Further disclosed is a composition comprising the peptide(s), nucleic acid molecule(s), vector(s) or host cell(s) of the invention. The present invention also relates to therapeutic and diagnostic means, methods and uses taking advantage of the peptide(s) of the invention and to means, methods and uses for detecting anti- $\beta$ -adrenergic receptor antibodies, in particular anti- $\beta$ 1 -adrenergic receptor antibodies.

IPC 8 full level

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