

Title (en)
METHOD FOR SYNTHESIZING PEPTIDES

Title (de)
VERFAHREN ZUR SYNTHESE VON PEPTIDEN

Title (fr)
PROCEDE DE SYNTHESE DE PEPTIDES

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Application
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Abstract (en)
[origin: WO2004018501A1] The present invention relates to a novel method for synthesizing peptides in solution, the method comprising: a) treating a peptide or amino acid derivative, which has an alpha-amine function blocked with a urethane group of the formula $R<1>-SO_2-CH_2CH_2-O-CO-$, wherein $R<1>$ is aryl, with an excess of an aliphatic secondary amine in an organic solvent to provide the release of the free alpha-amine function of said amino acid or peptide derivative and the formation of a tertiary amine adduct between said secondary amine and the liberated vinyl compound of the formula $R<1>-SO_2-CH_2=CH_2$; b) removing the solvent and the excess of said secondary amine; c) contacting thus formed mixture of the Nalpha-deprotected amino acid or peptide derivative and said tertiary amine adduct with subsequent peptide or amino acid derivative Nalpha-protected with the above indicated or another urethane group under conditions providing the formation of a peptide bond between the free alpha-amine function of the Nalpha-deprotected amino acid or peptide derivative and an alpha-carboxylic function of the subsequent Nalpha-protected peptide or amino acid derivative; d) separating the newly formed peptide from the reaction mixture; e) repeating procedures as set forth above until the desired polypeptide is obtained.

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