Title (en)
METHOD OF SEPARATING OPTICAL ISOMERS OF A PROTECTED AMINOACID

Title (de)
VERFAHREN ZUR TRENNUNG OPTISCHER ISOMERE EINER GESCHÜTZTEN AMINOSÄURE

Title (fr)
PROCEDE DE SEPARATION D'ISOMERES OPTIQUES D'UN ACIDE AMINE PROTEGE

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Abstract (en)
[origin: WO2005001107A1] The invention relates to a method Method of enzymatically separating optical isomers of a protected amino acid. According to the invention, a (non-sidechain-carboxyl) protected aminoacid is used having the general formula (I) HR<1>N-CR<2>- (CH) n-C (0) ZR<3 >wherein R<1> is an amino-protective group or hydrogen; - R<2> is a side chain; n is a number chosen from 0, 1, and 2; ZR<3> is a carboxy-protective group where Z is chosen from 0 or NH; and R<1> and R<3> may be integrated, forming a heterocyclic (non-sidechain-carboxyl)-protected ring, the ring backbone comprising 5 to 8 atoms; the (non-sidechain-carboxyl)-protected aminoacid having a molecular weight of less than 1000 Dalton, said method comprising the steps of - contacting the (non-sidechain-carboxyl) -protected aminoacid (I) in the presence of water with an optionally partially purified cell-free extract of a fungus containing an enzyme having at least one of an esterase and amidase activity yielding a mixture of (non-sidechain carboxyl) deprotected product and starting material; and - optionally separating the (non-sidechain carboxyl) deprotected product and starting material.

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