

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

Publication

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Application

**EP 04748942 A 20040625**

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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)  $\text{HR}_{<1>\text{N-CR}_{<2>-}(\text{CH})_n\text{-C}(0)\text{ZR}_{<3>}$  wherein  $\text{R}_{<1>}$  is an amino-protective group or hydrogen;  $\text{R}_{<2>}$  is a side chain;  $n$  is a number chosen from 0, 1, and 2;  $\text{ZR}_{<3>}$  is a carboxy-protective group where  $Z$  is chosen from 0 or  $\text{NH}$ ; and  $\text{R}_{<1>}$  and  $\text{R}_{<3>}$  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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