

Title (en)
ENZYMES AND METHODS FOR THE STEREOSELECTIVE REDUCTION OF CARBONYL COMPOUNDS, OXIDATION AND STEREOSELECTIVE REDUCTIVE AMINATION - FOR THE ENANTIOSELECTIVE PREPARATION OF ALCOHOL AMINE COMPOUNDS

Title (de)
ENZYME UND VERFAHREN ZUR STEREOSELEKTIVEN REDUKTION VON CARBONYLVERBINDUNGEN, OXIDATION SOWIE STEREOSELEKTIVEN REDUKTIVEN AMINIERUNG - ZUR ENANTIOSELEKTIVEN DARSTELLUNG VON ALKOHOLAMINVERBINDUNGEN

Title (fr)
ENZYMES ET PROCÉDÉ POUR LA RÉDUCTION STÉRÉOSÉLECTIVE DE COMPOSÉS CARBONYLE, L'OXYDATION, AINSI QUE L'AMINATION RÉDUCTIVE STÉRÉOSÉLECTIVE POUR LA PRÉPARATION ÉNANTIOSÉLECTIVE DE COMPOSÉS ALCOOL-AMINES

Publication
EP 3645500 A1 20200506 (DE)

Application
EP 18735275 A 20180628

Priority
• DE 102017210944 A 20170628
• EP 2018067407 W 20180628

Abstract (en)
[origin: WO2019002459A1] The invention relates to enzymes for use in a method for the stereoselective reduction of carbonyl compounds or oxidation of hydroxy compounds, in a method for isomerization between ephedrine and pseudoephedrine, and in a method for the stereoselective reductive amination of chiral alpha-hydroxy ketones to obtain an amine as well as the counterreaction. Also disclosed are the amino acid sequence of said enzymes, fusion proteins comprising the enzyme, and a vector, cell or organism containing a nucleotide sequence coding for the enzyme. Further disclosed are the corresponding methods and the use in said methods.

IPC 8 full level
C07C 209/88 (2006.01); **C12N 9/00** (2006.01); **C12N 9/04** (2006.01)

CPC (source: EP)
C07C 29/143 (2013.01); **C07C 45/64** (2013.01); **C07C 67/29** (2013.01); **C07C 209/88** (2013.01); **C07C 213/00** (2013.01); **C07C 213/02** (2013.01); **C07C 221/00** (2013.01); **C07D 209/38** (2013.01); **C07D 213/30** (2013.01); **C07D 307/42** (2013.01); **C07D 333/16** (2013.01); **C12N 9/0006** (2013.01); **C07B 2200/07** (2013.01)

Citation (search report)
See references of WO 2019002459A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2019002459 A1 20190103; DE 102017210944 A1 20190103; DE 102017210944 A9 20190228; DE 102017210944 B4 20190523; EP 3645500 A1 20200506

DOCDB simple family (application)
EP 2018067407 W 20180628; DE 102017210944 A 20170628; EP 18735275 A 20180628