

Title (en)  
SYNTHESIS OF NITROALCOHOL DIASTEREOMERS

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON NITROALKOHOL-DIASTEREOMEREN

Title (fr)  
SYNTHESE DE DIASTEREOMERES A BASE DE NITROALCOOL

Publication  
**EP 1159253 A2 20011205 (EN)**

Application  
**EP 00915838 A 20000223**

Priority  
• US 0004576 W 20000223  
• US 12131299 P 19990223

Abstract (en)  
[origin: WO0050378A2] The present invention relates to a method of preparing a 1-nitro-3-substituted-3-amino-2-propanol diastereomer represented by Structural Formula (I): In Structural Formula (I), R is an amine protecting group, and R<1> is an amino acid side-chain, a protected amino acid side-chain, a substituted or unsubstituted aliphatic group, a substituted or unsubstituted aromatic group, a substituted or unsubstituted heteroaromatic group, a substituted or unsubstituted aralkyl or a substituted or unsubstituted heteroaralkyl group. The method involves a contacting a 1-nitro-3-substituted-3-amino-2-propanone with a reducing agent to form a mixture of 1-nitro-3-substituted-3-amino-2-propanol diastereomers. The 1-nitro-3-substituted-3-amino-2-propanol diastereomers are then separated by simulated moving bed chromatography to obtain one or more 1-nitro-3-substituted-3-amino-2-propanol diastereomer.

IPC 1-7  
**C07C 213/00**

IPC 8 full level  
**B01D 15/00** (2006.01); **B01D 15/08** (2006.01); **B01J 20/285** (2006.01); **B01J 20/286** (2006.01); **B01J 20/291** (2006.01); **C07B 57/00** (2006.01); **C07C 213/00** (2006.01); **C07C 227/02** (2006.01); **C07C 227/34** (2006.01); **C07C 229/34** (2006.01); **C07C 269/06** (2006.01); **C07C 271/16** (2006.01); **G01N 30/26** (2006.01); **G01N 30/46** (2006.01); **G01N 30/88** (2006.01); **B01D 15/18** (2006.01); **C07C 215/28** (2006.01)

CPC (source: EP)  
**C07C 213/00** (2013.01); **B01D 15/185** (2013.01); **C07B 2200/07** (2013.01); **Y02P 20/55** (2015.11)

Citation (search report)  
See references of WO 0050378A2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0050378 A2 20000831**; **WO 0050378 A3 20010405**; AU 3704300 A 20000914; CA 2364266 A1 20000831; EP 1159253 A2 20011205; JP 2002542153 A 20021210

DOCDB simple family (application)  
**US 0004576 W 20000223**; AU 3704300 A 20000223; CA 2364266 A 20000223; EP 00915838 A 20000223; JP 2000600963 A 20000223