

Title (en)  
METHOD FOR PRODUCING DIPHENYL AZETIDINONE DERIVATIVES

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON DIPHENYL-AZETIDINON-DERIVATEN

Title (fr)  
PRODEDE DE PRODUCTION DE DERIVES DE DIPHENYL AZETIDINONE

Publication  
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Application  
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Abstract (en)  
[origin: WO2005113495A1] The invention relates to a method for producing diphenyl azetidinone derivatives of general formula (I) or forms protected in the substituents X, R<1> and/or R<2>, wherein the symbols, substituents, and indices have the following designations: X = H, OH; R<1> = OH, OCH<sub>3</sub>; R<2> = F, CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>NHR<4>; R<3> = H, F; R<4> = H, CO-(CH<sub>2</sub>)<sub>n</sub>CO-R<5>, CO-(CH<sub>2</sub>)<sub>n</sub>NHR<6>; n = whole numbers from 4 to 16; R<5> = OH, NH-CH<sub>2</sub>-[CH(OH)-]<sub>m</sub>CH<sub>2</sub>OH; R<6> = H, CO-[CH(OH)-]<sub>m</sub>CH<sub>2</sub>OH; and m = whole numbers from 1 to 5. According to said method, novel compounds of general formula (II), wherein Y = H, H; H, OH; H, OAc; H, OSi(alkyl)o(aryl)p where o, p = 0, 1, 2 or 3 and o + p = 3; H, OTHP; H, OC(Aryl)<sub>3</sub>; H, OCH<sub>2</sub>OAlkyl; H, OCH(OAlkyl)CH<sub>3</sub>; H, OAlkyl; H, OCH<sub>2</sub>aryl; Oalkyl, Oalkyl; and cyclic ketone acetyl such as O-(CH<sub>2</sub>)<sub>q</sub>-O where q = 2 or 3, are reacted with imines of general formula (III) wherein R<7> = R<1> and O protective groups and R<8> = e.g. R<2>.

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