

Title (en)
SYNTHESIS OF 3,5-DIHYDROXY-7-PYRROL-1-YL HEPTANOIC ACIDS

Title (de)
SYNTHESE VON 3,5-DIHYDROXY-7-PYRROL-1-YL-HEPTANSÄUREN

Title (fr)
SYNTHESE D'ACIDES 3,5-DIHYDROXY-7-PYRROL-1-YLE HEPTANOIQUES

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Application
EP 03786885 A 20031117

Priority

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Abstract (en)
[origin: WO2004046105A2] Atorvastatin and related 3,5-dihydroxy-7-pyrrol-1-yl heptanoic acids can be made by oxidation of a 3,5-dihydroxy-7-pyrrol-1-yl heptanol precursor from novel but readily accessible starting materials. Silylether-protected 7-amino-3,5-dihydroxy heptanoic acid esters undergo Paal Knorr reaction with 1,4-diketones to give valuable silylether-diprotected 3,5-dihydroxy-7-pyrrol-1-yl heptanoic acid ester intermediates for preparing atorvastatin. The Paal Knorr reaction of ketal-protected 7-amino-3R, 5R-dihydroxy heptanoic acid esters with 4-fluoro-alpha-(2-methyl-1-oxopropyl-gamma-oxo-N,beta-diphenylbenzene)butanamide occurs in high yield with few side products when it is conducted in a low boiling point ether.

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IPC 8 full level
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