Title (en)

PROCESS FOR THE ENZYMATIC FORMATION OF AMIDE BONDS

Title (de)

VERFAHREN ZUR ENZYMATISCHEN HERSTELLUNG VON AMIDBINDUNGEN

Title (fr)

PROCÉDÉ POUR LA FORMATION ENZYMATIQUE DE LIAISONS AMIDE

Publication

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Application

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Abstract (en)

[origin: WO2014067746A1] The present invention is concerned with processes for the enzymatic formation of amide bonds. More specifically the invention is concerned with the formation of amide bonds between amino acid esters acylated on the amino terminus to nicotinic acid or isonicotinic acid and amino compounds with the aid of proteases. The invention provides processes for amide formation employing amino acid esters, connected to nicotinoyl- or isonicotinoyl-groups via an amide bond on the amino terminus, that are more efficient than processes for amide formation employing amino acid esters carrying standard protecting groups such as benzoyl or Z on their amino terminus. In one aspect therefore, the present invention, further, relates to the protease mediated synthesis of organogellant compounds (OG) as depicted below wherein L is a linking moiety of molecular weight from 14 g/mol to 500 g/mol, one of X1, X2 is nitrogen and the other is carbon, and wherein R1 are sidechain substituents.

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