

Production of ω -Amino Fatty Acids

Abstract

5 The invention relates to a whole cell catalyst which expresses a recombinant α -dioxygenase or the combination of a recombinant fatty acid reductase and a phosphopantetheinyl transferase phosphopantetheinylating the fatty acid reductase, and which in addition to the α -dioxygenase and/or the combination of fatty acid reductase and phosphopantetheinyl transferase expresses
10 a transaminase, characterized in that the phosphopantetheinyl transferase and/or transaminase is preferably recombinant; and a method for the conversion of a fatty acid, ω -hydroxy fatty acid, ω -oxo fatty acid or a monoester thereof to an amine, comprising the steps oxidation of the fatty acid, ω -hydroxy fatty acid, ω -oxo fatty acid or the monoester thereof to an oxidation product by contacting with an alkane hydroxylase and/or alcohol dehydrogenase, contacting the oxidation
15 product with a phosphopantetheinylated fatty acid reductase or a α -dioxygenase to give an aldehyde, and contacting the aldehyde with a transaminase.

(No suitable figure)