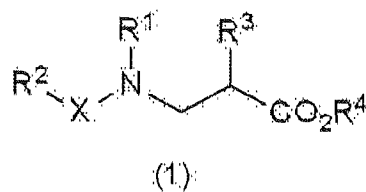
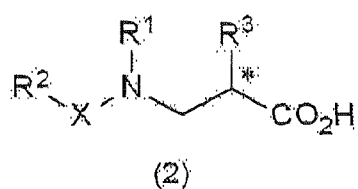


ABSTRACT

The invention provides a method for producing an optically active α -substituted- β -amino acid represented by formula (2), the method comprising a step in which an optical isomer mixture of an α -substituted- β -amino acid ester represented by formula (1) is subjected to asymmetric hydrolysis by using an enzyme and such capable of asymmetrically hydrolyzing the ester site of said optical isomer mixture.



(In the formulae, R^1 represents an acyl group, a carboxyl group, or a carboxamide group; R^2 represents an alkyl group, an aryl group, an aralkyl group, a cyclic ether group, or the like; R^3 represents an optionally-substituted C_1 to C_{20} hydrocarbon group; R^4 represents an alkyl group; X represents an oxygen atom or a sulfur atom; and * represents the asymmetric center.)