

Title (en)

BIOSYNTHETIC PRODUCTION OF (5S,6S)-6-AMINO-5-HYDROXYCYCLOHEXA-1,3-DIENE-1-CARBOXYLIC ACID (2,3-CHA)

Title (de)

BIOSYNTHEISCHE PRODUKTION VON (5S,6S)-6-AMINO-5-HYDROXYCYCLOHEXA-1,3-DIEN-1-CARBONSÄURE (2,3-CHA)

Title (fr)

PRODUCTION BIOSYNTHETIQUE D'ACIDE (5S,6S)-6-AMINO-5-HYDROXYCYCLOHEXA-1,3-DIENE-1-CARBOXYLIQUE (2,3-CHA)

Publication

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Application

**EP 06754044 A 20060601**

Priority

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Abstract (en)

[origin: EP1728872A1] The invention relates to a process for the biosynthetic production and recovery of [5S,6S]-6-amino-5-hydroxycyclohexa-1,3-diene-1-carboxylic acid) catalyzed, at increased enzyme activity, at least by an enzyme belonging to the class of aminodeoxyisochorismate (ADIC) synthases and an enzyme belonging to the class of isochorismatases, wherein (a) the production is carried out fermentatively with a suitable carbon source as starting material in a chorismate overproducing host microorganism, and with an aminodeoxyisochorismate (ADIC) synthase enzyme selected from the group of such ADIC synthase enzymes that are lacking ADIC lyase activity, and (b) the recovery is carried out by means of concentrating the supernatant of the fermentation to a 2,3-CHA concentration of at least 25 g/l, followed by crystallisation from the said concentrated supernatant. In a second embodiment, the present invention relates to the use of [5S,6S]-6-amino-5-hydroxycyclohexa-1,3-diene-1-carboxylic acid (2,3-CHA) as a catalytically active product, in particular as a chiral catalyst. Finally, the invention relates to the novel zinc complex of 2,3-CHA.

IPC 8 full level

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