

Title (en)
HYALURONAN SYNTHASES AND METHODS OF MAKING AND USING SAME

Title (de)
HYALURONSYNTHASEN UND VERFAHREN ZUR HERSTELLUNG UND VERWENDUNG DAVON

Title (fr)
HYALURONAN SYNTHASES ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION

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Application
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Abstract (en)
[origin: WO03048330A2] A functionally active hyaluronan synthase having at least one modified amino acid residue therein as compared to a corresponding functionally active native hyaluronan synthase such that the functionally active hyaluronan synthase has an altered enzymatic activity as compared to the corresponding functionally active native hyaluronan synthase is disclosed. Methods of producing hyaluronic acid utilizing a recombinant host cell having an expression construct encoding the functionally active hyaluronan synthase with altered enzymatic activity are also disclosed.

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CPC (source: EP)
C12N 9/1051 (2013.01); **C12P 19/26** (2013.01)

Citation (search report)
• [X] HELDERMON COY ET AL: "Streptococcal hyaluronan synthases and the synthesis of "designer" hyaluronan", INTERNATIONAL CONGRESS SERIES; NEW FRONTIERS IN MEDICAL SCIENCES: REDEFINING HYALURONAN ELSEVIER SCIENCE B.V. {A}, SARA BURGERHARTSTRAAT 25, 1000 AE, AMSTERDAM, NETHERLANDS SERIES : INTERNATIONAL CONGRESS SERIES (ISSN 0531-5131), 2000, & SYMPOSIUM ON NEW FRONTIERS IN MEDICAL SCIENCES: REDEFINING HYALURONAN; PADUA, ITALY; JUNE 17-19, 1999, pages 41 - 50, XP009047179, ISSN: 0-444-50357-9
• [X] JING WEI ET AL: "Dissection of the two transferase activities of the Pasteurella multocida hyaluronan synthase: Two active sites exist in one polypeptide", GLYCOBIOLOGY, vol. 10, no. 9, September 2000 (2000-09-01), pages 883 - 889, XP002326785, ISSN: 0959-6658
• [X] YOSHIDA MAMORU ET AL: "In vitro synthesis of hyaluronan by a single protein derived from mouse HAS1 gene and characterization of amino acid residues essential for the activity", JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 275, no. 1, 7 January 2000 (2000-01-07), pages 497 - 506, XP002326786, ISSN: 0021-9258
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• See references of WO 03048330A2

Citation (examination)
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