

Title (en)
THERAPY-ENHANCING GLUCAN

Title (de)
DIE THERAPIE VERSTÄRKENDES GLUCAN

Title (fr)
GLUCANE PERMETTANT D'AMÉLIORER UNE THÉRAPIE

Publication
EP 1984004 A4 20100303 (EN)

Application
EP 07718218 A 20070117

Priority
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Abstract (en)
[origin: WO2007084661A2] A therapeutic composition for treatment of cancer in a mammal is disclosed. The composition comprises an effective amount of a yeast beta-glucan composition which is suitable for oral administration and for absorption through the gastrointestinal tract of the mammal. The above therapeutic composition may further comprise antitumor antibodies or cancer vaccine composition, wherein the antitumor activities of the antitumor antibodies or the cancer vaccine composition are enhanced by the yeast glucan.

IPC 8 full level
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CPC (source: EP US)
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C-Set (source: EP)
1. **A61K 39/0011 + A61K 2300/00**
2. **A61K 31/716 + A61K 2300/00**
3. **A61K 39/39558 + A61K 2300/00**

Citation (search report)
• [X1] US 2006009419 A1 20060112 - ROSS GORDON D [US], et al
• [X1] WO 2005018544 A2 20050303 - SLOAN KETTERING INST CANCER [US], et al
• [X1] WO 02058711 A1 20020801 - SLOAN KETTERING INST CANCER [US], et al
• [Y] US 5817643 A 19981006 - JAMAS SPIROS [US], et al
• [XPI] WO 2006119395 A2 20061109 - BIOPOLYMER ENGINEERING INC [US], et al
• [X1] HONG F ET AL: "Mechanism by which orally administered [beta]-1,3-glucans enhance the tumoricidal activity of antitumor monoclonal antibodies in murine tumor models", JOURNAL OF IMMUNOLOGY, AMERICAN ASSOCIATION OF IMMUNOLOGISTS, US, vol. 173, no. 2, 15 July 2004 (2004-07-15), pages 797 - 806, XP009125353, ISSN: 0022-1767
• [X1] KANEKO Y ET AL: "Activity of lentinan against cancer and AIDS", INTERNATIONAL JOURNAL OF IMMUNOTHERAPY, BIOSCIENCE EDIPRINT INC., CAROUGE-GENEVA, CH, vol. 5, no. 4, 1 January 1989 (1989-01-01), pages 203 - 213, XP009125324, ISSN: 0255-9625
• [X1] CHEUNG N-K V ET AL: "Orally administered beta-glucans enhance anti-tumor effects of monoclonal antibodies", CANCER IMMUNOLOGY AND IMMUNOTHERAPY, SPRINGER-VERLAG, BERLIN, DE, vol. 51, no. 10, 1 November 2002 (2002-11-01), pages 557 - 564, XP002297978, ISSN: 0340-7004
• [X1] HERLYN D ET AL: "Stimulation of monoclonal antibody-dependent macrophage-mediated cytotoxicity against human tumors by lentinan", INTERNATIONAL JOURNAL OF IMMUNOPHARMACOLOGY, ELMSFORD, NY, US, vol. 7, no. 3, 1 January 1985 (1985-01-01), pages 332, XP023842271, ISSN: 0192-0561, [retrieved on 19850101]
• [Y] PENNA C ET AL: "PULMONARY METASTASES NEUTRALIZATION AND TUMOR REJECTION BY IN VIVO ADMINISTRATION OF BETA GLUCAN AND BISPECIFIC ANTIBODY", INTERNATIONAL JOURNAL OF CANCER, JOHN WILEY & SONS, INC, UNITED STATES, SWITZERLAND, GERMANY, vol. 65, 1 January 1996 (1996-01-01), pages 377 - 382, XP002924638, ISSN: 0020-7136
• [YD] VETVICKA V ET AL: "SOLUBLE BETA-GLUCAN POLYSACCHARIDE BINDING TO THE LECTIN SITE OF NEUTROPHIL OR NATURAL KILLER CELL COMPLEMENT RECEPTOR TYPE 3 (CD11B/CD18) GENERATES A PRIMED STATE OF THE RECEPTOR CAPABLE OF MEDIATING CYTOTOXICITY OF IC3B-OPSONIZED TARGET CELLS", JOURNAL OF CLINICAL INVESTIGATION, AMERICAN SOCIETY FOR CLINICAL INVESTIGATION, US, vol. 98, no. 1, 1 July 1996 (1996-07-01), pages 50 - 61, XP001000371, ISSN: 0021-9738
• [YP] CHEN ET AL: "Medicinal importance of fungal beta-(1->3), (1->6)-glucans", MYCOLOGICAL RESEARCH, ELSEVIER, GB, vol. 111, no. 6, 1 June 2007 (2007-06-01), pages 635 - 652, XP022163026, ISSN: 0953-7562
• [A] PELLEY R P ET AL: "Plants, polysaccharides and the treatment and prevention of neoplasia", CRITICAL REVIEWS IN ONCOGENESIS, BOCA RATON, FL, vol. 11, no. 3&4, 1 January 2000 (2000-01-01), pages 189 - 225, XP002963429, ISSN: 0893-9675

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