

Title (en)
FRAGMENTS AND ANTAGONISTS OF HEAT SHOCK PROTEIN 60

Title (de)
FRAGMENTE UND ANTAGONISTEN DES HEAT SHOCK PROTEINS 60

Title (fr)
FRAGMENTS ET ANTAGONISTES DE PROTEINES DE CHOC THERMIQUE 60

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Application
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Abstract (en)
[origin: WO0143691A2] The invention identifies fragments of hsp60 which retain the capability of inducing a pro-inflammatory immune response of cells of the innate immune system. It is further disclosed the unexpected finding that smaller peptides derived from these fragments of hsp60 are capable of acting as antagonists of hsp60 insofar as they have the ability to reduce or even prevent the induction of a pro-inflammatory immune response by hsp60 in cells of the innate immune system. It further discloses variants, derivatives and analogs of such peptides, which are capable of acting as antagonists of hsp60 insofar as they have the ability to reduce or prevent the induction of a pro-inflammatory immune response by hsp60 in cells of the immune system. The invention also discloses pharmaceutical compositions comprising such peptide fragments or variants, derivatives and analogs thereof, and their use to prevent or ameliorate inflammatory diseases or disorders.

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A61K 39/00; A01N 63/00

IPC 8 full level
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IPC 8 main group level
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Citation (search report)

- [XY] WO 9808536 A2 19980305 - YEDA RES & DEV [IL], et al
- [Y] WO 9804583 A1 19980205 - PEPTOR LTD [IL], et al
- [PX] WO 0020019 A2 20000413 - SHOENFELD YEHUDA [IL], et al
- [E] WO 0248312 A2 20020620 - PEPTOR LTD [IL], et al
- [X] CHEN W ET AL: "Human 60-kDa heat-shock protein: a danger signal to the innate immune system.", JOURNAL OF IMMUNOLOGY (BALTIMORE, MD. : 1950) 15 MAR 1999, vol. 162, no. 6, 15 March 1999 (1999-03-15), pages 3212 - 3219, XP002291767, ISSN: 0022-1767
- [X] BOCKOVA J ET AL: "TREATMENT OF NOD DIABETES WITH A NOVEL PEPTIDE OF THE HSP 60 MOLECULE INDUCES TH2-TYPE ANTIBODIES", JOURNAL OF AUTOIMMUNITY, LONDON, GB, vol. 10, no. 4, August 1997 (1997-08-01), pages 323 - 329, XP000881733, ISSN: 0896-8411
- [A] MEDZHITOV R ET AL: "A HUMAN HOMOLOGUE OF THE DROSOPHILA TOLL PROTEIN SIGNALS ACTIVATION OF ADAPTIVE IMMUNITY", NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 388, 24 July 1997 (1997-07-24), pages 394 - 396, XP002056592, ISSN: 0028-0836
- [A] ABULAFIA-LAPID R ET AL: "T cell proliferative responses of type 1 diabetes patients and healthy individuals to human hsp60 and its peptides", JOURNAL OF AUTOIMMUNITY, LONDON, GB, vol. 12, no. 2, March 1999 (1999-03-01), pages 121 - 129, XP002246459, ISSN: 0896-8411
- [A] BIRK OHAD S ET AL: "A role of Hsp60 in autoimmune diabetes: Analysis in a transgenic model", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 93, no. 3, 1996, pages 1032 - 1037, XP002291768, ISSN: 0027-8424
- [T] VABULAS R M ET AL: "HEAT SHOCK PROTEINS AS LIGANDS OF TOLL-LIKE RECEPTORS", CURRENT TOPICS IN MICROBIOLOGY AND IMMUNOLOGY, SPRINGER, BERLIN, DE, vol. 270, 2002, pages 169 - 184, XP008017649, ISSN: 0070-217X
- [PA] KOLB H ET AL: "HEAT SHOCK PROTEINS SIGNAL THROUGH THE LPS RECEPTOR TLR4", JOURNAL OF ENDOTOXIN RESEARCH, CHURCHILL LIVINGSTONE, EDINBURGH, GB, vol. 6, no. 2, 2000, pages 89, ANS49, XP001076880, ISSN: 0968-0519
- See references of WO 0143691A2

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