

Title (en)

A GENE THERAPY SYSTEM AND METHOD USING ALPHA-MSH AND ITS DERIVATIVES

Title (de)

EIN GENTHERAPIE-SYSTEM UND EIN VERFAHREN, DAS ALPHA-MSH UND SEINE DERIVATE VERWENDET

Title (fr)

SYSTEME ET PROCEDE DE THERAPIE GENIQUE UTILISANT ALPHA-MSH ET SES DERIVES

Publication

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Application

**EP 01930932 A 20010427**

Priority

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Abstract (en)

[origin: WO0182699A1] Disclosed in this specification is the use alpha-MSH and/or its derivatives as an adjunct to gene therapy. In one aspect, the gene therapy vector includes nucleic acids that expresses alpha-MSH and/or its derivatives. Inflammatory or immune response gene promoter may control the expression of alpha-MSH and/or its derivatives. The sequences may also be expressed together with a therapeutic gene using an internal ribosomal entry site sequence. In another aspect, pharmacologically effective amount of alpha-MSH and/or its derivatives may be administered before, after, or concurrently with the gene therapy vector carrying the appropriate gene.

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CPC (source: EP)

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Citation (search report)

- [PX] WO 0033658 A1 20000615 - ELEANOR ROOSEVELT INST [US], et al
- [X] WO 0042856 A1 20000727 - SCHEPENS EYE RES INST [US], et al
- [E] WO 0206316 A2 20020124 - ZYCOS INC [US], et al
- [X] HILTZ M E ET AL: "ANTI-INFLAMMATORY ACTIVITY OF ALPHA-MSH(11-13) ANALOGS: INFLUENCES OF ALTERATION IN STEREOCHEMISTRY", PEPTIDES, ELMSFORD, US, vol. 12, 1991, pages 767 - 771, XP000570459, ISSN: 0196-9781
- [X] CATANIA ANNA ET AL: "The neuropeptide alpha-melanocyte-stimulating hormone: A key component of neuroimmunomodulation", NEUROIMMUNOMODULATION, vol. 1, no. 2, 1994, pages 93 - 99, XP009028112, ISSN: 1021-7401
- [X] DELGADO HERNANDEZ RENE ET AL: "Inhibition of systemic inflammation by central action of the neuropeptide alpha-melanocyte-stimulating hormone", NEUROIMMUNOMODULATION, vol. 6, no. 3, May 1999 (1999-05-01), pages 187 - 192, XP009028113, ISSN: 1021-7401
- [X] CUTULI M ET AL: "ANTIMICROBIAL EFFECTS OF ALPHA-MSH PEPTIDES", JOURNAL OF LEUKOCYTE BIOLOGY, FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL, US, vol. 67, February 2000 (2000-02-01), pages 233 - 239, XP002931058, ISSN: 0741-5400
- See references of WO 0182699A1

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