Title (en)

NOVEL TYROSINASE-SPECIFIC ANTIGENIC OLIGONUCLEOTIDES AS DEPIGMENTING AGENTS

Title (de)

NEUE TYROSINASE-SPEZIFISCHE ANTIGENE OLIGONUKLEOTIDE ALS DEPIGMENTIERUNGSMITTEL

Title (fr)

NOUVEAUX OLIGONUCLÉOTIDES ANTI-GÈNES SPÉCIFIQUES DE LA TYROSINASE COMME AGENTS DÉPIGMENTANTS

Publication

EP 1941036 A1 20080709 (FR)

Application

EP 06793134 A 20060901

Priority

- EP 2006065902 W 20060901
- FR 0508981 A 20050901

Abstract (en)

[origin: FR2890074A1] An oligonucleotide inhibitor of tyrosinase gene expression comprising a sequence of 15-25 nucleotides including a specific 21 nucleotide sequence (SEQ ID NO:1) which hybridizes to the human tyrosinase gene by Hoogsteen pairing to form a triple helix structure, is new. An oligonucleotide inhibitor of tyrosinase gene expression comprising a sequence of 15-25 nucleotides including a specific 21 nucleotide sequence (SEQ ID NO:1) which hybridizes to the human tyrosinase gene by Hoogsteen pairing to form a triple helix structure, is new. Independent claims are included for: (1) a cosmetic or dermatological composition comprising the oligonucleotide inhibitor; and (2) cosmetic process of treatment for depigmentation or to bleach the skin or hair, comprising application of the composition on pigmented zone of the skin or pilous of hair and optional repetition of the operation until the appearance of depigmented effect. 5'-C*TTC*TC*TC*TTTTTC*C*TTTTTC*-3' sequence (SEQ ID No. 1), where C* is a 5-methyl-cytosine ACTIVITY : Dermatological. MECHANISM OF ACTION : Tyrosinase expression inhibitor. The ability of the oligonucleotide to inhibit the expression of human tyrosinase was tested using reverse transcriptase polymerase chain reaction. The results showed that the LNA oligonucleotide exhibited an inhibition of 49%.

IPC 8 full level

A61K 31/7088 (2006.01); **A61P 17/00** (2006.01); **A61Q 17/04** (2006.01); **A61Q 19/02** (2006.01); **C12N 15/113** (2010.01)

CPC (source: EP KR US)

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