Title (en)

METHOD FOR IDENTIFYING AND LOCATING EXPRESSED EPIL PEPTIDES, CODED BY THE INSL4 GENE AND THEIR USES

Title (de)

IDENTIFIKATION UND LOKALISATION VON EPIL-POLYPEPTIDEN, FÜR DIE DAS INSL4-GEN KODIERT, UND IHRE ANWENDUNGEN

Title (fr)

IDENTIFICATION ET LOCALISATION DE POLYPEPTIDES EPIL EXPRIMES, CODES PAR LE GENE INSL4 ET LEURS APPLICATIONS

Publication

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Application

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Priority

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Abstract (en)

[origin: FR2767326A1] The following EPIL early placental insulin-like polypeptides encoded by the INSL4 gene insulin-like gene 4 are claimed: (1) EPIL 1, which is expressed in human or animal cells, especially in human placental trophoblasts, and consists of a single chain comprising regions A, B and C with an overall sequence selected from the amino acid sequences between positions 18 and 139, of the 139 bp sequence given in the specification also see WO 9534653, where the overall sequence comprises at least amino acids 24-139, and where EPIL 1 may also comprise a signal peptide; (2) EPIL 2, which is expressed in human or animal cells, especially in human placental trophoblasts, and consists of: (a) an A chain whose amino acid sequence consists of amino acids 115-139 of the 139 amino acid sequence; (b) a B chain whose amino acid sequence is a sequence between positions 18 and 58, inclusive, of the 139 aa sequence, where this sequence comprises at least amino acids 24-53, and where EPIL 2 may also comprise a signal peptide whose amino acid sequence is a sequence between positions 1 and 23, inclusive, of the 139 aa sequence, where the signal peptide comprises at least amino acids 1-17; (3) EPIL 3, which is expressed in human or animal cells, especially in human placental trophoblasts, and consists of a C chain whose amino acid sequence is a sequence between positions 54 and 114, inclusive, of the 139 aa sequence Also claimed are: (4) a biologically active fragment of a polypeptide as above; (5) a nucleic acid sequence encoding a polypeptide or fragment as above; (6) a cloning and/or expression vector containing the nucleic acid sequence of (5); (7) a host cell transformed with the vector of (6); (8) monoclonal and polyclonal antibodies, antibody fragments and chimeric antibodies that specifically recognise a polypeptide or fragment as above; (9) an oligonucleotide probe or primer capable of hybridising to the nucleic acid sequence of (5); (10) a method for cell labelling using one or more antibodies as in (8); (11) a method for obtaining a cell containing a polypeptide or nucleic acid sequence as above, comprising using the method of (10) and isolating the labelled cell; (12) a cell that can be selected by the method of (11); (13) a method for selecting a chemical or biochemical compound capable of modulating the activity of a polypeptide as above, using a polypeptide or fragment as above, a nucleic acid sequence as in (5) or a cell as in (7); (14) a chemical or biochemical compound that can be selected by the method of (13).

IPC 1-7

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