Title (en)
SOLUBLE VARIANTS OF THE IGE RECEPTOR FC-EPSILON-RI-ALPHA WITH INCREASED AFFINITY

Title (de)
LÖSLICHE VARIANTEN DES IGE-REZEPTORS FC-EPSILON-RI-ALPHA MIT ERHÖHTER AFFINITÄT

Title (fr)
VARIANTES SOLUBLES DU RECEPTEUR D'IGE EN FC-$g(e)-R1-$g(a) A AFFINITE ACCRUE

Publication
EP 0998562 A1 20000510 (EN)

Application
EP 98935206 A 19980723

Priority
- GB 9802207 W 19980723
- GB 9715387 A 19970723

Abstract (en)
[origin: WO9905271A1] A soluble polypeptide has an IgE-binding functionality corresponding to that of the alpha -chain of the mast-cell Fc- epsilon -R1 IgE receptor protein, and enhanced binding to the Fc portion of IgE, and comprises substantially the sequence and conformation of at least one and preferably both of the two C2-type immunoglobulin-like domains of the alpha -chain of the Fc- epsilon -R1 IgE receptor protein, substantially lacks a sequence corresponding to the transmembrane segment of said receptor protein, and has a mutation relative to a natural sequence of said receptor protein, especially for example (a) lys117 to large hydrophobic residue such as phe, tyr or trp; (b) glu132 to a large hydrophobic residue such as tyr; (c) lys154 to a large hydrophobic residue such as phe, leu, or tyr; (d) gly124 to a positively charged residue such as lysine or arginine; (e) lys128 to a negatively charged residue such as glutamate; (f) gln157 to a negatively charged residue such as glutamate or aspartate; (g) leu158 to a negatively charged residue such as glutamate or aspartate; (h) asp159 to a positively charged residue such as lysine or arginine. Also provided are corresponding polynucleotides and host cells and methods and pharmaceutical compositions for use in reducing excessive IgE action, e.g. allergic reaction.

IPC 1-7
C12N 15/12; C07K 14/705

IPC 8 full level
C07K 14/735 (2006.01); **C12N 15/12** (2006.01)

CPC (source: EP)
C07K 14/70535 (2013.01)

Citation (search report)
See references of WO 9905271A1

Designated contracting state (EPC)
AT BE CH DE ES FI FR GB IE IT LI

DOCDB simple family (publication)
WO 9905271 A1 19990204; AU 8455598 A 19990216; EP 0998562 A1 20000510; GB 9715387 D0 19970924

DOCDB simple family (application)
GB 9802207 W 19980723; AU 8455598 A 19980723; EP 98935206 A 19980723; GB 9715387 A 19970723