

Title (en)

MULTIMERIC FORMS OF HUMAN RHINOVIRUS RECEPTOR PROTEIN.

Title (de)

MULTIMERE FORMEN VON REZEPTORPROTEIN DES HUMANEN RHINOVIRUS.

Title (fr)

FORMES MULTIMERES DE LA PROTEINE PROPRE AU RECEPTEUR DU RHINOVIRUS HUMAIN.

Publication

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Application

EP 93915452 A 19930622

Priority

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- US 90306992 A 19920622

Abstract (en)

[origin: WO9400485A1] The present invention relates to novel forms and configurations of intercellular adhesion molecule (ICAM) including multimeric configurations that effectively bind to human rhinovirus and can effectively reduce HRV infectivity. When in a multimeric configuration, preferably as dimers, these proteins display enhanced binding of HRV and are able to reduce HRV infectivity as well as the infectivity of other viruses known to bind to the "major" group human rhinovirus receptor (HRR). The multimerized proteins may also be used to block tICAM interaction with lymphocyte function-associated antigen-1 (LFA-1).

IPC 1-7

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IPC 8 full level

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Citation (search report)

- [X] EP 0468257 A1 19920129 - MOLECULAR THERAPEUTICS INC [US]
- [X] EP 0365837 A2 19900502 - DANA FARBER CANCER INST INC [US]
- [X] EP 0387701 A1 19900919 - BOEHRINGER INGELHEIM PHARMA [US]
- [X] GREVE J. M. ET AL.,: "Mechanism of receptor-mediated rhinovirus neutralization defined by two soluble forms of ICAM-1", J. VIROLOGY, vol. 65, November 1991 (1991-11-01), pages 6015 - 6023, XP000615280
- [PX] MARTIN S. ET AL.,: "Erfolgreiche Blockade von Rhinovirusinfektionen durch ICAM-1-Immunglobulinchimäre in vitro", MEDIZINISCHE KLINIK, vol. 88, no. 4, 15 April 1993 (1993-04-15), pages 193 - 197, XP000615274
- See references of WO 9400485A1

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