

Title (en)
PSEUDOTYPED RETROVIRAL VECTOR FOR GENE THERAPY OF CANCER

Title (de)
PSEUDOTYPISIERTE RETROVIRALE VEKTOREN ZUR GENTHERAPIE GEGEN KREBS

Title (fr)
PSEUDOTYPE DE VECTEUR RETROVIRAL DESTINE A LA THERAPIE GENIQUE DU CANCER

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Application
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Abstract (en)
[origin: WO0065034A2] The invention relates to retroviral expression vectors and more particularly to pseudotyped retroviral vectors for gene therapy of cancer. Direct in vivo tumor-targeting with "suicide" viral vectors is limited by inefficient gene transfer and indiscriminate transfer of a conditionally toxic gene to surrounding non-malignant tissue. Retrovectors pseudotyped with a Vesicular Stomatitis Virus G protein (VSVG) may serve as a remedy to this conundrum. These retroviral particles differ from standard murine retroviruses by their very broad tropism and the capacity to be concentrated by ultracentrifugation without loss of activity. A VSVG-typed retrovector can be utilized for efficient and tumor specific Herpes Simplex Virus Thymidine Kinase (TK) gene delivery in vivo. A bicistronic retroviral vector which expresses TK and Green Fluorescence Protein (pTKiGFP) was constructed.

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Citation (search report)
See references of WO 0065034A2

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