

Title (en)
RECOMBINANT RHABDOVIRUSES AS LIVE-VIRAL VACCINES FOR IMMUNODEFICIENCY VIRUSES

Title (de)
REKOMBINANTE RHABDOVIREN ALS LEBENDIMPfstoffe gegen Immunschwäche-Viren

Title (fr)
RHABDOVIRUS RECOMBINES UTILES EN TANT QUE VACCINS A VIRUS VIVANTS DIRIGES CONTRE DES VIRUS A DEFICIT IMMUNITAIRE

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Application
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Priority
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Abstract (en)
[origin: WO0155330A2] This invention provides recombinant, replication-competent Rhabdovirus vaccine strain-based expression vectors for expressing heterologous viral antigenic polypeptides such as immunodeficiency virus envelope proteins or subparts thereof. An additional transcription stop/start unit within the Rhabdovirus genome is inserted to express the heterologous antigenic polypeptides. The HIV-1 gp160 protein is stably and functionally expressed, as indicated by fusion of human T cell-lines after infection with the recombinant RVs. Inoculation of mice with the recombinant Rabies viruses expressing HIV-1 gp160 induces a strong humoral response directed against the HIV-1 envelope protein after a single boost with an isolated recombinant HIV-1 gp120 protein. Moreover, high neutralization titers, up to 1:800, against HIV-1 are detected in the mouse sera. These recombinant viral vectors expressing viral antigenic polypeptides provide useful and effective pharmaceutical compositions for the generation of viral-specific immune responses.

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