

Title (en)
IMMUNOLOGICAL TOLERANCE TO HIV EPITOPES

Title (de)
IMMUNTOLERANZ VON HIV EPITOPEN.

Title (fr)
TOLERANCE IMMUNOLOGIQUE AUX EPITOPES DU HIV

Publication
EP 0973933 A1 20000126 (EN)

Application
EP 98908538 A 19980213

Priority
• US 9802766 W 19980213
• US 4058197 P 19970213

Abstract (en)
[origin: WO9836087A1] Fusion immunoglobulin (flg) proteins comprising one or more heterologous epitopes associated with a disease in which immune responsiveness is deleterious are useful to induce tolerance to these epitopes. HIV-1 gp120 epitopes linked in frame with an Ig heavy (H) chain are useful constructs for the induction of epitope-specific tolerance to HIV. Treatment of a subject with such a construct, or with lymphoid or hematopoietic cells expressing or secreting such flg molecules induces specific immunological tolerance to those epitopes. Such tolerance, by preventing production of antibodies to selected gp120 epitopes, can prevent or inhibit "bystander" apoptosis of uninfected host T cells which have bound the HIV gp120 protein to their surface CD4 molecules and are subsequently cross-linked by undesired anti-gp120 antibodies, thereby priming them for apoptosis in the presence of antigens which activate those T cells. gp120 epitopes corresponding to non-neutralizing B cell epitopes or certain T helper cell epitopes are preferred for producing the flg molecules. In addition to flg H chains and complete Ig molecules, DNA encoding such H chain and cells transformed with such DNA are provided.

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Citation (search report)
See references of WO 9836087A1

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