

Stromal Cell Derived Factor-1 (SDF-1) And Method Of Use For Diagnostic And Prognostic Indicator Or AIDS Pathogenesis

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Technology description

Summary

Stromal cell derived factor-1 (SDF-1) is the principal ligand for CXCR4 (a 7- transmembrane G-coupled receptor) which, with CD4, provides an entry port for T- tropic HIV-1, a variety that frequently develops in AIDS patients just prior to T-lymphocyte depletion. This invention is based on the discovery of a correlation between the presence of a mutation at one nucleotide position of the 3'untranslated region of the SDF1 gene and delayed progression to AIDS and death due to HIV infection. Based on this discovery, it is the object of the present invention to provide diagnostic and therapeutic approaches to treating HIV infection by diagnosing the mutation and down regulating the CXCR4 receptor with native or synthetic SDF-1.

Institution

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