Title (en)

RNA INTERFERENCE MEDIATED INHIBITION OF STROMAL CELL-DERIVED FACTOR-1 (SDF-1) GENE EXPRESSION USING SHORT INTERFERING NUCLEIC ACID (SINA)

Title (de)

DURCH RNA-INTERFERENZ VERMITTELTE HEMMUNG DER GENEXPRESSION DES AUS STROMAZELLEN STAMMENDEN FAKTORS 1 (SDF-1) UNTER VERWENDUNG EINER KURZEN INTERFERIERENDEN NUKLEINSÄURE (SINA)

Title (fr)

INHIBITION, MEDIEE PAR L'INTERFERENCE D'ARN, DE L'EXPRESSION GENIQUE DU FACTEUR 1 DERIVE DES CELLULES STROMALES (SDF-1), AU MOYEN D'ACIDE NUCLEIQUE INTERFERANT COURT (SINA)

Publication

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Application

EP 06784507 A 20060526

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- US 2006020846 W 20060526
- US 14032805 A 20050527
- US 70394605 P 20050729
- US 20564605 A 20050817
- US 23473005 A 20050923
- US 73702405 P 20051115
- US 29925405 A 20051208
- US 35363006 A 20060214
- US 36910806 A 20060306

Abstract (en)

[origin: WO2006128141A2] The present invention relates to compounds, compositions, and methods for the study, diagnosis, and treatment of traits, diseases and conditions that respond to the modulation of stromal cell-derived factor- 1 (SDF-I) gene expression and/or activity. The present invention is also directed to compounds, compositions, and methods relating to traits, diseases and conditions that respond to the modulation of expression and/or activity of genes involved in stromal cell-derived factor- 1 (SDF-I) gene expression pathways or other cellular processes that mediate the maintenance or development of such traits, diseases and conditions. Specifically, the invention relates to double stranded nucleic acid molecules including small nucleic acid molecules, such as short interfering nucleic acid (siNA), short interfering RNA (siRNA), double-stranded RNA (dsRNA), micro-RNA (miRNA), and short hairpin RNA (shRNA) molecules capable of mediating RNA interference (RNAi) against stromal cell-derived factor- 1 (SDF-I) gene expression, including cocktails of such small nucleic acid molecules and lipid nanoparticle (LNP) formulations of such small nucleic acid molecules. The present invention also relates to small nucleic acid molecules, such as siNA, siRNA, and others that can inhibit the function of endogenous RNA molecules, such as endogenous micro-RNA (miRNA) (e.g, miRNA inhibitors) or endogenous short interfering RNA (siRNA), (e.g., siRNA inhibitors) or that can inhibit the function of RISC (e.g., RISC inhibitors), to modulate SDF-I gene expression by interfering with the regulatory function of such endogenous RNAs or proteins associated with such endogenous RNAs (e.g., RISC), including cocktails of such small nucleic acid molecules and lipid nanoparticle (LNP) formulations of such small nucleic acid molecules. Such small nucleic acid molecules and are useful, for example, in providing compositions to prevent, inhibit, or reduce angiogenesis related diseases traits and conditions, including but not limited to ocular disease, cancer and proliferative diseases, traits, and conditions, and/or other disease states, conditions, or traits associated with SDF-I gene expression or activity in a subject or organism.

IPC 8 full level

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