

Title (en)

INHIBITORS AND TARGET MOLECULE CO-LOCALIZATION

Title (de)

KOLOKALISATION VON ZIELMOLEKUEL UND SEINEM INHIBITOR

Title (fr)

CO-LOCALISATION D'UNE MOLECULE CIBLE ET DE SES INHIBITEURS

Publication

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Application

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Abstract (en)

[origin: WO9519788A1] The invention provides mechanisms for the co-localization in a living cell of a target molecule and of an inhibitor for the target molecule. The invention also provides novel chimeric tRNA<LYS>-ribozyme molecules that compete effectiely with tRNA<LYS> for HIV-1 reverse transcriptase binding sites. The chimeric human tRNA<LYS>-ribozymes inhibit reverse HIV transcription by delivering inhibitors such as ribozymes of HIV-1 reverse transcriptase directly to the virion particle and render it non-functional. The chimeric molecules of the invention thus serve as highly specific non-toxic therapeutic agents and vaccines for viral, including lentiviral, infections. These chimeric molecules also reveal a novel, site specific RNA cleaving activity of HIV-1.

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