Discovery of Tropolone Inhibitors of HIV-1 Integrase that can be Used for the Treatment of Retroviral Infection, Including AIDS

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Technology description

Summary

This invention provides pharmaceutical compositions comprising one or more HIV-1 integrase inhibitor compounds, as well as methods for treatment or prevention of HIV infection. These compounds are alpha-hydroxytropolone or its salt, solvate or hydrate, and they have been shown to inhibit the integrase by interfering with the enzyme catalytic site by chelating magnesium ions, and have been shown to inhibit the strand transfer reaction. Integrase is an important target for AIDS therapy since it is critical for viral replication, and does not have cellular counterparts, which can potentially reduce toxic side effects. Thus, the compounds of this invention can be developed as novel anti-viral agents that can be used in combinational therapy, especially since they might be less toxic than other anti-viral agents.

Institution

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