

Polyamine Compounds That Bind Tar RNA of HIV and Methods of Treating Viral Disorders

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Technology description

Current HIV treatment involves applying cocktail of drugs targeting either virus entry or one of three viral enzymes. Because patients eventually develop resistance to the cocktail, a new class of drugs is urgently needed. Current invention describes a new class of polyamine compounds that specifically bind to HIV RNA at micromolar range to prevent binding of viral RNA to viral proteins and therefore blocking viral replication. This differs with the mechanisms of current HIV drugs in the market and therefore offers new strategy in HIV treatment and prevention. Furthermore, this class of compound may aid future development of drugs targeting RNA.

Market:

HIV therapeutics and preventatives

Application area

Treatment and prevention of HIV infection

Advantages

Novel strategy for HIV treatment and prevention

Specific binding to HIV RNA and strong activity

Institution

[NIH - National Institutes of Health](#)

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