

# Scytovirin Domain 1 (SD1) Related Polypeptide

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## Technology description

### Summary

The invention provides composition claims for a scytovirin domain 1 (SD1) antiviral polypeptide, nucleic acids encoding the polypeptide, related fusion proteins and conjugates, isolated cells, vectors, and antibodies that bind to the polypeptide. The polypeptide of this invention has the ability to bind to viral proteins, such as gp41 and gp120 of HIV, and exhibit anti-viral activity against type C and D retroviruses such as HIV-1 and HIV-2, Ebola, SARS, Influenza viruses and others. The invention also provides for methods of use to inhibit viral infections therapeutically and prophylactically as well as methods of inhibiting virus in biological samples or inanimate objects. Thus, further development of the invention may yield novel therapies and methods in the prevention of HIV and other retroviruses, and treatment of chronic infection in patients with resistance to current therapies.

### Institution

[NIH - National Institutes of Health](#)

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