

Recombinant *Scytonema varium* Scytovirin

Catalog No: #AP72867



Package Size: #AP72867-1 20ug #AP72867-2 100ug #AP72867-3 1mg

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	Recombinant <i>Scytonema varium</i> Scytovirin
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-95aaSequence Info:Full Length
Accession No.	P86041
Uniprot	P86041
Calculated MW	11.7 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	GSGPTYCWNEANNPGGPNRCSNNKQCDGARTCSSSGFCQGTSRKPDPGPKGPTYCWDEAKNPGGPNRC SNSKQCDGARTCSSSGFCQGTAGHAAA
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.  Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

Has strong anti-HIV activity against T-tropic strains of HIV-1 and weaker activity against M-tropic strains of HIV-1. Inhibits HIV-1 fusion and infection of CD4 LTR beta-gal cells in vitro. Inhibits fusion of HIV infected C-SS cells with uninfected C-SS cells, and fusion of HIV-1 Env expressing HL2,3 cells with CD4 LTR beta-gal cells. Binds to HIV gp120, HIV gp160 and to a lesser extent HIV gp41. Binding to HIV gp120 is glycosylation dependent. Binds with high specificity to the tetrasaccharide Man-alpha-1,2-Man-alpha-1,6-Man-alpha-1,6-Man and also binds the higher-order oligosaccharides oligomannose 8 and oligomannose 9. Does not bind to monosaccharides, complex or hybrid N-linked oligosaccharides or chitin.

## References

A potent novel anti-HIV protein from the cultured cyanobacterium *Scytonema varium*. Bokesch H.R., O'Keefe B.R., McKee T.C., Pannell L.K., Patterson G.M.L., Gardella R.S., Sowder R.C. II, Turpin J., Watson K., Buckheit R.W. Jr., Boyd M.R. *Biochemistry* 42:2578-2584(2003) Research Topic:Others

Note: This product is for in vitro research use only