

## Recombinant Human Immunodeficiency Virus Type 1 Nef Antigen Strain IIIB (a.a. 3-190)

Cat.No:DAG568

Lot. No. (See product label)

### PRODUCT INFORMATION

<b>Storage</b>	Short-term (up to 2 months) store at 2–8oC. Long term, aliquot and store at -80oC. Avoid multiple freeze/thaw cycles.
<b>Antigen Description</b>	Nef is a early protein that appears to play a role in optimizing the host cell environment for viral replication without causing cell death by apoptosis. Nef enhances virus infectivity and pathogenicity. It down modulates surface MHC I molecules and internalized molecules are sequestered to the trans-Golgi network. The number of cell surface CD4 antigen are decreased by interacting with the Src family kinase LCK thereby inducing LCK CD4 dissociation and by increasing clathrin-dependent endocytosis of this antigen to target it to lysosomal degradation.
<b>Source</b>	E. coli
<b>Buffer</b>	8M Urea, 20mM Tris-HCl, pH 8.0; 10mM Beta-mercaptoethanol
<b>Concentration</b>	1mg/ml (OD280nm)
<b>Applications</b>	Specific methodologies have not been tested using this product.
<b>Form</b>	Purified, Liquid
<b>Preservative</b>	None
<b>Purity</b>	>95% pure (SDS-PAGE)
<b>Key words</b>	3"ORF; ABIN; ABIN1; C terminal core protein; F protein; F-protein; Nef; Negative factor; p27; VAN; HIV-1; Human Immunodeficiency Virus Type 1; HIV-1 nef; Human Immunodeficiency Virus Type 1 nef antigen Strain IIIB; Retroviridae; Lentivirus

### Background

<b>Introduction</b>	HIV is different in structure from other retroviruses. It is roughly spherical with a diameter of about 120 nm, around 60 times smaller than a red blood cell, yet large for a virus. It is composed of two copies of positive single-stranded RNA that codes for the virus's nine genes enclosed by a conical capsid composed of 2,000 copies of the viral protein p24. The single-stranded RNA is tightly bound to nucleocapsid proteins, p7, and enzymes needed for the development of the virion such as reverse transcriptase, proteases, ribonuclease and integrase. A matrix composed of the viral protein p17 surrounds the capsid ensuring the integrity of the virion particle.
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