

## HIV-1 nef, Clade B

**Description:**The E.coli derived 27 kDa recombinant HIV-1 Nef Clade-B protein is a single non-glycosylated polypeptide chain.

Catalog #:HIPS-163

**Source:**Escherichia Coli.

For research use only.

**Physical Appearance:**Sterile Filtered and lyophilized, though might appear as a solution as a result of the glycerol content.

**Purity:**Greater than 90.0% as determined by HPLC analysis and SDS-PAGE.

**Formulation:**

Lyophilized with 10% glycerol.

**Stability:**

Lyophilized HIV-1 nef although stable at room temperature for 1 week, should be stored desiccated below -18°C. Upon reconstitution HIV-1 nef should be stored at 4°C between 2-7 days and for future use below -18°C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized HIV-1 nef in sterile 18M-cm H2O not less than 100

**Introduction:**

HIV-1 Nef is a 27kDa protein highly produced after a very short time after virus infection. HIV-1 Nef is an essential factor for efficient viral replication and pathogenesis.HIV-1 Nef facilitates virus replication and improves virions infectivity. HIV-1 Nef exerts pleiotropic effect. HIV-1 Nef down-modulates surface MHC-I molecules, decreases cell surface CD4 antigen by interacting with the Src family kinase LCK thereby inducing LCK-CD4 dissociation and by increasing clathrindependent endocytosis of this antigen to target it to lysosomal degradation. HIV-1 Nef guards the infected cell from apoptosis in order to keep it alive until the next virus generation is ready to strike. HIV-1 Nef protein bypasses host Tcell signaling by inducing a transcriptional program nearly identical to that of anti-CD3 cell activation.

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