

## Recombinant HIV nef protein

**Cat. No.** nef-177H **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	The E.coli derived 27kDa recombinant HIV-1 Nef Clade-B protein is a single non-glycosylated polypeptide chain.
<b>Species</b>	HIV
<b>Source</b>	E.coli
<b>Description</b>	<p>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.</p>
<b>Form</b>	Sterile Filtered and lyophilized, though might appear as a solution as a result of the glycerol content. Lyophilized with 10% glycerol.
<b>Molecular Mass</b>	27kDa
<b>Purity</b>	Greater than 90.0% as determined by HPLC analysis and SDS-PAGE.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Usage</b>	The 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.
<b>Stability</b>	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.
<b>Solubility</b>	It is recommended to reconstitute the lyophilized HIV-1 nef in sterile 18M-cm H <sub>2</sub> O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">nef p27 [ Human immunodeficiency virus 1 ]</a>
<b>Official Symbol</b>	<a href="#">nef</a>
<b>Synonyms</b>	nef; p27
<b>Gene ID</b>	<a href="#">156110</a>
<b>Protein Refseq</b>	<a href="#">NP_057857.2</a>
<b>UniProt ID</b>	<a href="#">P04601</a>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA