

Recombinant HIV nef protein

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

SPECIFICATION

Product Overview	The E.coli derived 27kDa recombinant HIV-1 Nef Clade-B protein is a single non-glycosylated polypeptide chain.
Species	HIV
Source	E.coli
Description	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.
Form	Sterile Filtered and lyophilized, though might appear as a solution as a result of the glycerol content. Lyophilized with 10% glycerol.
Molecular Mass	27kDa
Purity	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  Fax: 1-631-938-8127

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

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

GENE INFORMATION

Gene Name	nef p27 [Human immunodeficiency virus 1]
Official Symbol	nef
Synonyms	nef; p27
Gene ID	156110
Protein Refseq	NP_057857.2
UniProt ID	P04601

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