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32-5559: Recombinant HIV-1 nef , Clade B

Description

Source : Escherichia Coli. The E.coli derived 27 kDa recombinant HIV-1 Nef Clade-B protein is a single non-glycosylated polypeptide chain. 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 phatogenesis.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 lysosomial 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.

Product Info

Amount :	10 µg
Purification :	Greater than 90.0% as determined by HPLC analysis and SDS-PAGE.
Content :	Lyophilized with 10% glycerol.
Storage condition :	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.

Application Note

It is recommended to reconstitute the lyophilized HIV-1 nef in sterile 18M-cm H2O not less than 100Ã□Âµg/ml, which can then be further diluted to other aqueous solutions.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.