9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

HIV-1 nef, Clade B

HIV-1 nef Clade B Recombinant
VAG0323

Product Overview

Name	HIV-1 nef, Clade B
Description	
HIV-1 nef Clade B Recombinant	
Accession (Primary)	CAA41585
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 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered and lyophilized, though might appear as a solution as a result of the glycerol content.	
Formulation	
Lyophilized with 1% 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.	
Purity	
Greater than 90.0% as determined by HPLC analysis and SDS-PAGE.	
Solubility	
It is recommended to reconstitute the lyophilized HIV-1 nef in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.	
Precautions	

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HIV-1 nef, Clade B is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (CAA41585)