Product Data Sheet

Product Name:	HIV-1 nef, Clade B
Cat. No.:	GP25385
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped at Room temp.
Solubility	It is recommended to reconstitute the lyophilized HIV-1 nef in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized with 1% glycerol.		

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.

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.

Background

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

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA