HIV-1 Nef protein

05-011 20 µg, 05-012 100 µg

Storage: Store at -20℃. Avoid freeze-thaw cycles.

Product: Full-size recombinant HIV-1 Nef protein expressed in *E.coli*. No tag is attached.

Applications:

1) Functional studies of HIV-1 Nef protein
2) SDS-PAGE and Western blotting
3) ELISA

Purity: Over 90% by SDS-PAGE

Protein concentration: 1.0 mg/ml as determined by BCA method.

Form: 50% glycerol, 20 mM Tris-HCl (pH 7.5), 50 mM NaCl, 10 mM mercaptoethanol

Data Link: ProtKB: P03406 (NEF_HV1BR) GenBank: AAA44988.1

Background: HIV-1 Nef is one of the accessory proteins synthesized in the early stage of AIDS virus reproduction and is abundantly found in infected cells. The name derives from its negative factor thought at the beginning but presently it is remarked as the protein which bears the most distinctive biological characteristic of AIDS virus (1). The protein interacts directly with the signal transduction protein of the host T cells and works effectively on AIDS infection or on long term survival of the infected cells or induces apoptosis of non-infected cells (2). It is also involved in endocytosis and degradation of the cell surface receptor proteins such as CD4 and MH4 which are important for AIDS virus infection.

References

1. Arora VK *et al* "Nef: agent of cell subversion." *Microbes Infect* **4**: 189-199 (2002) Review PMID: 11880052
2. Fackler OT and Baur AS "Live and let die: Nef functions beyond HIV replication." *Immunity* **16**:493-497 (2002) Review PMID: 11970873
3. Adachi A *et al* "Production of acquired immunodeficiency syndrome-associated retrovirus in human and nonhuman cells transfected with an infectious molecular clone." *J Virol* **59**: 284 -291(1986) PMID: 3016298

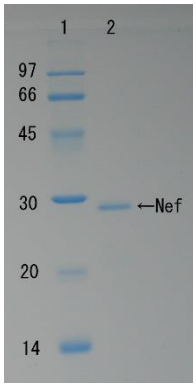

Fig.1 SDS-polyacrylamide gel electrophoresis of HIV-1 Nef protein.

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.