

**HIV-1 Nef protein (full length/2-210)^{His}**

Human Immunodeficiency Virus-1, Negative Factor recombinant, *E. coli*

| Cat. No. | Amount |
|----------|--------|
| PR-381 | 50 µg |

For general laboratory use.

Shipping: shipped on dry ice

Storage Conditions: store at -80 °C

Additional Storage Conditions: avoid freeze/thaw cycles

Shelf Life: 12 months

Purity: > 90 % (SDS-PAGE)

Form: liquid (Supplied in 5 mM Tris-HCl pH 8.0)

Description:

Recombinant N-terminal His-tagged full-length HIV-1 Nef protein (SF2 strain). Human immunodeficiency virus type 1 (HIV-1) Nef is a membrane-associated protein that is produced at the earliest stage of viral gene expression and is a component of viral particles. Nef has been demonstrated to bind and downregulate cell-surface receptors CD4 and MHC I. In addition, Nef has been reported to have diverse effects on cellular signal transduction pathways. It interacts with various cellular protein kinases and acts both as a kinase substrate and as a modulator of kinase activity.

Selected References:

Cullen *et al.* (1994) The role of Nef in the replication cycle of the human and simian immunodeficiency viruses. *Virology* **205**:1.

Grzesiek *et al.* (1996) The solution structure of HIV-1 Nef reveals an unexpected fold and permits delineation of the binding surface for the SH3 domain of Hck tyrosine protein kinase. *Nat. Struct. Biol.* **3**:340.

Preusser *et al.* (2001) Direct *in vitro* binding of full-length HIV-1 Nef protein to CD4 cytoplasmic domain. *J. Virol.* **75**:3960.