**HIV-1 Nef (residues 3-190)**

Human Immunodeficiency Virus 1 Antigen recombinant, *E. coli*

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<thead>
<tr>
<th>Cat. No.</th>
<th>Amount</th>
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<tr>
<td>PR-1214</td>
<td>100 µg</td>
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**For in vitro use only!**

**S**hipping: shipped on blue ice  
**Storage Conditions:** store at -20 °C  
**Additional Storage Conditions:** avoid freeze/thaw cycles  
**Shelf Life:** 12 months  
**Molecular Weight:** 134 kDa  
**Purity:** > 95% (SDS-PAGE, HPLC)  
**Form:** liquid (Supplied in 20 mM Tris-HCl pH 8.0, 8 M urea and 10 mM beta-mercaptoethanol)

**Applications:**  
May be used in ELISA and Western blots, excellent antigen for early detection of HIV seroconvertors with minimal specificity problems.

**Description:**  
The protein contains the fragment of HIV-1 Nef protein, amino acids 3-190, the molecular weight is 20 kDa. The HIV-1 nef is fused to beta-galactosidase (114 kDa) at the N-terminus. The protein was purified by proprietary chromatographic technique.

**Background:**  
HIV belongs to the retrovirus family, distinguished by possession of a viral reverse transcriptase that transcribes viral RNA into DNA which is integrated into the host-cell genome. 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.

**Specificity:**  
Immuno reactive with all sera of HIV-I infected individuals.

**Selected References:**  