HIV-1 p17/p24/gp120/gp41
Human Immunodeficiency Virus 1 Antigens recombinant, E. coli

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<thead>
<tr>
<th>Cat. No.</th>
<th>Amount</th>
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<tr>
<td>PR-1202</td>
<td>100 µg</td>
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For in vitro use only!

Shipping: shipped on blue ice
Storage Conditions: store at -20 °C
Additional Storage Conditions: avoid freeze/thaw cycles
Shelf Life: 12 months
Purity: > 95 % (SDS-PAGE, HPLC)
Form: liquid (Supplied in 20 mM PBS pH 7.8, 20 mM NaCl, 1 mM DTT and 8 M urea)
pH: 7.8

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 full-length sequence of HIV-1 core and envelope proteins: Core protein p17 (Matrix protein), Core protein p24 (Core antigen) fused with membrane glycoprotein (gp120) and transmembrane glycoprotein (gp41). The fusion 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. The outer envelope is acquired during virion budding and is studded with spikes formed by the two major viral-envelope glycoproteins (the surface protein gp120 and the transmembrane protein gp41). The central core contains four viral proteins (p24 - the major capsid protein, p17 - a matrix protein, p9, and p7), two copies of the HIV RNA genome (to which p7 and p9 are bound), and three viral enzymes (reverse transcriptase, integrase, and protease) essential for viral replication.

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

Selected References: