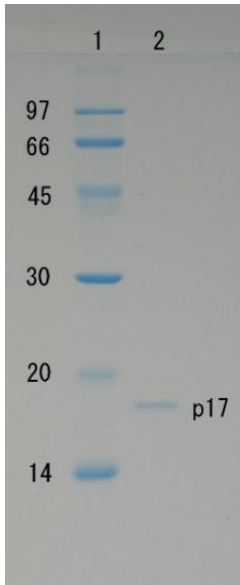


HIV-1 Gag p17

| | |
|--|--|
| Product code | 05-003 05-004 |
| Size | 20 µg 100 µg |
| Storage | -20°C |
| Product Description | This protein was over-expressed as a recombinant protein in <i>E. coli</i> with a plasmid carrying the Gag p17 coding region of HIV-1 virus, subtype B (2), and was highly purified by several steps of chromatography (3). Its molecular weight is 17 kD, same as that of p17 purified from AIDS virus particles (Fig 1). |
| Concentration | 0.5 mg/ml as measured by BCA method |
| Buffer | 50% glycerol, 20mM Tris-HCl (pH7.5), 50mM NaCl, 10mM 2-mercaptoethanol |
| Purity | Over 90% by SDS-PAGE (CBB staining) |
| Application | <ol style="list-style-type: none"> 1. It can be used as p17 antigen in detection of anti-HIV-1 p17 antibody in Western blotting or ELISA. 2. It can be used as a standard for quantitative analysis of HIV-1 p17 antigen. 3. It can be used in studies of structure and function of AIDS virus as a matrix protein that constitutes HIV-1 core. |
| Background | HIV-1 Gag p17 is the matrix protein of AIDS virus, HIV-1, and is produced by digestion of its precursor Gag p55 by HIV-1 protease. This protein is indispensable for reproduction of AIDS virus and is essential component of AIDS virus particles (1). |
| Data Image |  <p>Fig.1 Polyacrylamide gel electrophoresis of HIV-1 p17 protein</p> |
| Data Link | GenBank: AAA44988.1 |
| Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE. | |

References: 05-003, 05-004 HIV-1 Gag p17

1. Freed EO "HIV-1 gag proteins: diverse functions in the virus life cycle." *Virology* **251**:1-15 (1998) PMID: [9813197](#)
2. 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](#)
3. Saito A *et al* "Overproduction, purification, and diagnostic use of the recombinant HIV-1 Gag proteins, the precursor protein p55 and the processed products p17, p24, and p15." *Microbiol. Immunol.* **39**:473-483 (1995) PMID: [8569532](#)

Related products

65-008 Anti-HIV-1 Gag p17 antibody, rabbit serum

65-026 Anti-HIV-1 Gag p17 antibody, rabbit polyclonal