HIV-1 Gag p17

05-003　　20 μg,　　05-004　　100 μg

HIV-1 Gag p17 is the matrix protein of AIDS virus HIV-1 and is processed by the digestion of its precursor Gag p55 by HIV-1 protease. This protein is indispensable to the reproduction of AIDS virus and constitute the essential element of the of AIDS virus particle construction (1).

The product is over-expressed as a recombinant protein in *E. coli* with a plasmid carrying the Gag p17 coding region of HIV-1 virus, subtype B (2), and 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).

Usage

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 standard for the quantitative analysis of HIV-1 p17 antigen.
3) It can be used in studies of structure and function of AIDS virus as matrix protein that constitutes HIV-1 core.

Specification

Purity: Over 90% by SDS-PAGE (CBB staining)

Protein concentration: 0.23 mg/ml as measured by BCA method

Form: 50% glycerol, 20mM Tris-HCl (pH7.5), 50mM NaCl, 10mM mercaptoethanol

Storage: -20℃

Reference:

1. Freed EO, Virology 251:1-15 (1998) Review
2. Adachi A, et al., J. Virol. 59, 284 (1986)
3. Saito A,et al., Microbiol. Immunol. 39:473-483 (1995)

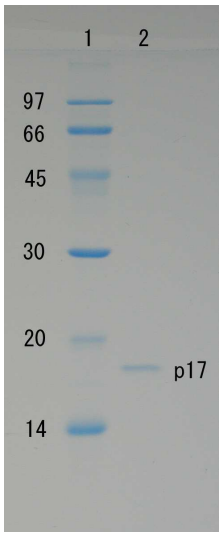

Fig. 1 Polyacrylamide gel electrophoresis of HIV-1 p17 protein

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