

# Recombinant HIV-1 Gag p55

**Cat. No.** Gag p55-93H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Recombinant HIV-1 Gag p55 was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | HIV                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | HIV-1 Gag p55 is a precursor protein of several proteins that form the core structure of AIDS virus, which are indispensable to their reproduction. This protein is digested by HIV-1 protease, first into intermediate products p41 and p15. Then p41 is digested into matrix protein p17 and capsid protein p24. Protein p15 is further digested into nucleocapsid protein p7, and to p6 and p1 whose functions are unknown. |
| <b>Form</b>             | 20% glycerol, 20mM Tris-HCl (pH7.5), 50mM NaCl, 10mM mercaptoethanol                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | Its molecular weight is 55 kD, same as that of p55 purified from AIDS virus particles.                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>           | Over 90% by SDS-PAGE (CBB staining)                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Applications</b>     | 1) Substrate for the HIV-1 protease activity assay.2) It can be used in detection of anti-HIV-1 Gag antibody in Western blotting or ELISA. All the anti-HIV-1 Gag antibodies such as anti-p17 antibody, anti-p24 antibody and anti-p15 antibody can be measured at the same time.                                                                                                                                              |
| <b>Storage</b>          | Store at -20°C (longer period, -70°C)                                                                                                                                                                                                                                                                                                                                                                                          |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

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|----------------------|--------------------------------------------|
| <b>Concentration</b> | 0.5~1.0 mg/ml as determined by BCA method. |
|----------------------|--------------------------------------------|

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