

## Recombinant HIV-1 Gag p24

**Cat. No.** Gag p24-91H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant HIV-1 Gag p24 was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | HIV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | HIV-1 Gag p24 is a capsid protein that constitutes the core 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 constitutes an essential element in the virus particle. As this protein is detectable from the early stage of AIDS virus infection, and reflects the amount of virus in the blood, it is used as a marker for observing the patient's condition during and after treatment. |
| <b>Form</b>             | 50% glycerol, 20mM Tris-HCl (pH7.5), 50mM NaCl, 10mM mercaptoethanol                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | Its molecular weight is 24 kD, same as that of p24 purified from HIV-1 virus particles.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>           | Over 90% purity by SDS-PAGE (CBB staining)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Applications</b>     | 1) SDS-PAGE as a p24 marker2) In ELISA assay as a standard in titration of p24 antigens3) As a standard for p24 in Western blotting.4) It can be used in the studies of structure and function of HIV-1 virus as it constitutes HIV-1 core as a capsid protein since it is soluble under physiological conditions.                                                                                                                                                                                        |
| <b>Storage</b>          | Store at -20°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

|                      |                                   |
|----------------------|-----------------------------------|
| <b>Concentration</b> | 1 mg/ml as measured by BCA method |
|----------------------|-----------------------------------|