

Recombinant HIV-1 Gag p15

Cat. No. Gag p15-92H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HIV-1 Gag p15 was expressed in E. coli.
Species	HIV
Source	E.coli
Description	HIV-1 Gag p15 is processed by digestion of its precursor Gag p55 by HIV-1 protease. This protein is further digested into nucleocapsid protein p7 and into p6 and p1 of unknown function. This digestion is promoted by binding of HIV-1 genome RNA and the two Zn finger motifs that exist in the p7 region. The produced nucleocapsid protein p7 regulates the RNA function by directly binding to HIV-1 genome RNA.
Form	50% glycerol, 20 mM Tris-HCl (pH 7.5), 50 mM NaCl, 10 mM mercaptoethanol
Molecular Mass	Its molecular size is 15 kD, same as that of p15 purified from AIDS virus particles.
Purity	Over 90% by SDS-PAGE (CBB staining)
Applications	1) It can be used as a substrate for HIV-1 protease in the presence of HIV-1 genomic RNA.2) It can be used in studies of structure and function of AIDS virus as precursor of nucleocapsid p7 protein that binds to HIV-1 genome RNA.3) It can be used as p15 antigen in detection of anti-HIV-1 p15 antibody in Western blotting or ELISA.4) It can be used as a standard for the quantitative analysis of HIV-1 p15 antigen.
Storage	Store at -20°C

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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



Concentration	0.42 mg/ml as measured by BCA method
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