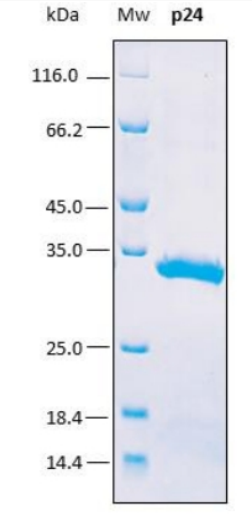
Recombinant FIV gag Antigen, His tagged

Cat. No. gag-025F **Lot. No.** (See product label)

SPECIFICATION

Product Overview	p24 is the major nucleocapsid protein encoded by the gag gene of FIV (aa 150-353) and has been expressed as a recombinant antigen fused to a his-tag in its N-terminus.
Species	FIV
Source	E.coli
Description	The p24 protein (also known as CA, or core antigen), is the capsid protein of the feline immunodeficiency virus. This is the most abundant viral protein, since each virus contains about 1,500 to 3,000 p24 molecules. This antigen is used for the early diagnosis of FIV infection. Levels of p24 increases significantly approximately one to three weeks after infection. It is during this time frame, before FIV antibody are produced, when the p24 test is useful in helping to diagnose infection. At the early stage of sero-conversion, antibodies against p24 antigen are the first to appear.
Tag	N-His
Molecular Mass	Determined by SDS-PAGE, the protein band is between molecular markers of 35-25 kDa, while relative molecular mass calculated from amino acid sequence is 28,888.71 Da.
Purity	> 95% by observation on SDS-PAGE electrophoresis
Storage	Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and

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

	stored at -20 to -80 centigrade. In order to defrost the protein, maintain the aliquot at 25 centigrade without shaking to avoid aggregation.
Storage Buffer	20 mM HEPES pH 8, 0.15 M NaCl, 0.13 M trehalose and 0.1% polyoxyethylene (10) tridecyl ether
Concentration	1.93 mg/ml
Shipping	Protein is shipped with dry ice.
Reference	1. Gill SC, von Hippel PH. Calculation of protein extinction coefficients from amino acid sequence data. Anal Biochem. 1989 Nov 1;182(2):319-26.
Purity	 SDS-PAGE analysis (15%) of 3 µL of recombinant p24 FIV. Purity is >98% as determined by gel electrophoresis.

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