

gag gene recombinant protein

gag gene recombinant

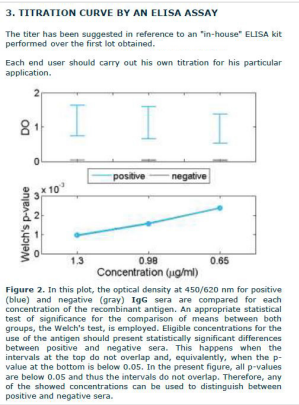
CATALOG # AAA72852	HOST E Coli	APPLICATIONS Western Blot, ELISA
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PRODUCT SYNONYMS

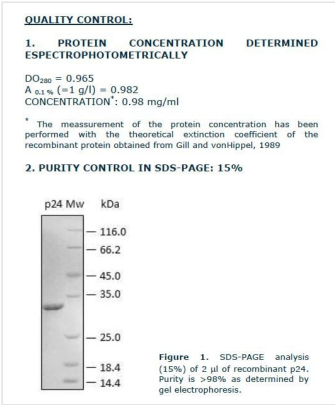
gag gene; gag gene recombinant; RECOMBINANT ANTIGEN p24 from HIV; p24 protein; gag gene recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	0.98
Form/Format	Dry powder (lyophilized)
Concentration	0.98 mg/ml (varies by lot)
Sequence Length	212
Applicable Applications for gag gene recombinant protein	WB (Western Blot), ELISA
Recombinant Antigen	human immunodeficiency virus core antigen p24 (Sundqvist et al., 1989).
Organism	HIV
Tag	HIS
Molecular Weight Information	Determined by SDS-PAGE, the protein band is between molecular markers of 35,000-25,000 Da, while relative molecular mass calculated from amino acid sequence is 30,065.0 Da.
Observation Notes	in some cases, purified proteins run at a molecular weight which is slightly different to the theoretically calculated molecular weight maybe due to the his-tag existence, which can produce a delay in SDS-PAGE. Proteins should be maintained frozen at high concentrations. The dilution to be performed for ELISA assays should be made with a small quantity of protein, the same day of the experiment. In order to defrost the protein, maintain the aliquot at 25 degree C without shaking to avoid aggregation. Prior making test dilutions and after defrost the protein, is recommended to remove possible protein aggregates by centrifuging the stock solution, avoiding alterations in the immobilization of the biomolecule to the solid surface.
Buffer	20 mM phosphate buffer pH 8, 10 mM NaCl, 0.1% polyoxyethylene (10) tridecyl ether and 250 mM Imidazol
Batch Composition	Recombinant antigen with a his-tag in its N-terminus
Storage Buffer	20 mM phosphate buffer pH 8, 10 mM NaCl, 0.1% polyoxyethylene (10) tridecyl ether and 250 mM Imidazol
Reconstitution	For lyophilized proteins: with 0.04 ml of sterile double-distilled water (lot specific) for a final concentration of 1.59 mg/ml (lot specific). The protein will be at pH 8.
Preparation and Storage	Lyophilized protein is shipped with on ice packs. Upon arrival, it should be stored at 20 degree C to -80 degree C. Aliquot after reconstitution in order to avoid repeated freezing and thawing cycles and store at 20 degree C to -80 degree C.



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for gag gene recombinant protein	the gag gene for the core antigen p24 hasbeen expressed as a recombinant antigen fused to a his-tagin its N-terminus. It is produced from the complete ORFs ofthis gene, aa (1-212).
Product Categories/Family for gag gene recombinant protein	Viruses
References	Sundqvist VA, Albert J, Ohlsson E, Hinkula J, FenyöEM, Wahren B. Human immunodeficiency virus type 1 p24production and antigenic variation in tissue culture ofisolates with various growth characteristics. 1989, J MedVirol, 29(3):170-5. Gill SC, von Hippel PH. Calculation of protein extinctioncoefficients from amino acid sequence data. AnalBiochem. 1989 Nov 1;182(2):319-26.

NCBI AND UNIPROT INFORMATION

NCBI GI #	2181212
UniProt Accession #	O11943
Molecular Weight	23,597 Da
NCBI Official Full Name	p24 protein
UniProt Protein Name	P24 protein
UniProt Gene Name	gag
UniProt Entry Name	O11943_9HIV1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.