

Recombinant FIV gp40 Envelope protein, His&TrxA tagged

Cat. No. env-014F **Lot. No.** (See product label)

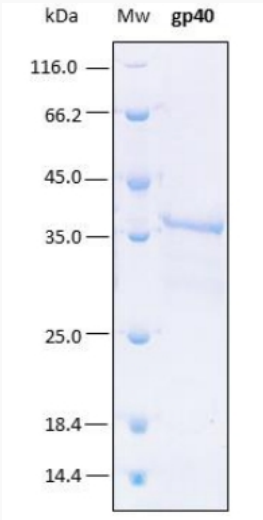
SPECIFICATION

Product Overview	gp40 is the transmembrane part of the envelope glycoprotein gp160 (aa 634-770) which has been expressed as a recombinant antigen fused to the thioredoxin TrxA and a his-tag in its N-terminus.
Species	FIV
Source	E.coli
Description	gp40 -is a transmembrane glycoprotein responsible for viral membrane fusion with the host cell membrane. The gp40 subunit contains different functional regions in its ectodomain: the fusion peptide (FP), heptad repeat 1 (HR1), HR2, and the transmembrane region. This protein is very similar to gp41 from HIV. The sequence of gp40 contains four functional regions, as follows: the N-terminal fusion peptide (which is thought to insert into the host cell membrane) is followed by an ectodomain, a transmembrane region and a cytoplasmic domain.
Tag	N-His&TrxA
Molecular Mass	Determined by SDS-PAGE, the protein bands are two and between molecular markers of 35-45 kDa, while relative molecular mass calculated from amino acid sequence is 38.276,75 Da.
Purity	> 95% by observation on SDS-PAGE electrophoresis
Applications	WB, DB, IE, DE

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Storage	Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and 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, 0.5 M arginine and 0.1% polyoxyethylene (10) tridecyl ether
Concentration	1.11 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 gp40. Purity is > 95% as determined by gel electrophoresis.