

Product Information

HIV-2 ENV ANTIGEN

Recombinant
Expressed in *E. coli*

Product Number **H 4285**
Storage Temperature 2–8 °C

Synonyms: gp36 antigen

Product Description

HIV-2 env antigen is a recombinant fusion protein produced from a cDNA sequence encoding amino acid residues 390-702 of the HIV-2 gp36 envelope glycoprotein that is fused at the amino terminus to β -galactosidase. The fusion protein is expressed in *E. coli* and has an apparent molecular mass of 155 kDa by SDS-PAGE (the HIV-2 env antigen has a molecular mass of 34 kDa and β -galactosidase has a molecular mass of 114 kDa). The protein migrates as several bands on SDS-PAGE. Immunoblot analysis indicates that all bands are derived from the HIV-2 env antigen fusion protein. The NCBI accession number for the HIV-2 sequence is VCLJST.

The gp36 protein of HIV-2 is an analogue of the HIV-1 gp41 membrane glycoprotein.¹ gp36 is an effective marker for identifying the presence of HIV-2 infection.² The antigen reacts strongly with human HIV-2 positive serum and can be used as a positive control for HIV-2 gp36 antibodies.

Reagent

HIV-2 env antigen is supplied in a 10 mM Na₂CO₃ buffer solution, pH 8.0, containing 10 mM Na₃EDTA, 14 mM β -mercaptoethanol, and 0.05% Tween 20.

Precautions and Disclaimer

This product is for laboratory research use only and should not be used for human therapeutic or diagnostic purposes. Please consult the Material Safety Data Sheet for handling recommendations before working with this material.

Storage/Stability

HIV-2 env antigen should be stored at 2–8 °C. Do not freeze.

References

1. Rey, M. A., et al., Characterization of human immunodeficiency virus type 2 envelope glycoproteins: dimerization of the glycoprotein precursor during processing. *J. Virol.*, **63**, 647-658 (1989).
2. Kannangai, R., et al., A peptide enzyme linked immunosorbent assay (ELISA) for the detection of human immunodeficiency virus type-2 (HIV-2) antibodies: an evaluation on polymerase chain reaction (PCR) confirmed samples. *J. Clin. Virol.*, **1**, 41-46 (2001).

JSM 12/01

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.