

HIV-1 gp140 recombinant protein

HIV-1 gp140 (Clade C) protein (amino acid 24-680), trimer majority

CATALOG # AAA13754	HOST 293 cell culture	APPLICATIONS Western Blot, ELISA
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PRODUCT SYNONYMS

HIV-1 gp140; HIV-1 gp140 (Clade C) protein (amino acid 24-680); trimer majority; gp140 (HIV-1/Clade C); gp140 (HIV-1/Clade C) (aa 24-680); glycosylated recombinant protein; HIV-1 gp140 recombinant protein

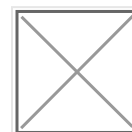
PRODUCT SPECIFICATIONS

Host	293 cell culture
Specificity	≥ 95% purity (SDS PAGE).
Concentration	1 mg/ml in PBS. (varies by lot)
Sequence Length	9041
Applicable Applications for HIV-1 gp140 recombinant protein	WB (Western Blot), ELISA
Viral Protein	C-terminal 6xHis tagged HIV-1 gp140 (Clade C) (isolate C.ZA.1197MB) protein (amino acid 24-680) (GenBank No. AY463234). Majority of protein exists as trimer.
Preparation and Storage	Store at -20 °C; Stable for 6-months from the date of shipment when kept at 4 °C. Non-hazardous. No MSDS required.

IMAGES



Sequence



SDS-PAGE

SDS-PAGE: Purified HIV-1 gp140 (Clade C) protein

ADDITIONAL INFORMATION

Related Product Information for HIV-1 gp140 recombinant protein	The exposed trimeric envelope glycoproteins of HIV target viral entry by melding the membranes of host cells with the virus. It consists of a structure of heterodimers of the transmembrane glycoprotein (gp41) and a surface glycoprotein (gp120) which are both derived by proteolytic cleavage from their common gp160 precursor. The gp140 ectodomain of envelope glycoprotein is a heterodimer with mass of approximately 140 kDa, composed of the entire gp120 component, and approximately 20kDa of gp41. This ectodomain is essential for viral entry into cells as it plays a vital role in attachment to specific cell surface receptors. These receptors are DC-SIGN, Heparan Sulfate Proteoglycan and a specific interaction with the CD4 receptor, particularly on helper T-cells. Binding to CD4 induces the start of a cascade of conformational changes in GP120 and gp41 that lead to the fusion of the viral with the host cell membrane. Binding to CD4 is mainly electrostatic although there are van der Waals interactions and hydrogen bonds.
Product Categories/Family for HIV-1 gp140 recombinant protein	Viral Recombinant Proteins ; HIV/SIV

NCBI AND UNIPROT INFORMATION

NCBI GI #	38892753
NCBI Official Full Name	HIV-1 isolate C.ZA.1197MB from South Africa, complete genome
UniProt Protein Name	Protein Nef
UniProt Gene Name	nef
UniProt Entry Name	Q6S7U6_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.

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Online datasheet: <https://stage.aaabiotech.com/nef-recombinant-protein-293-cell-culture-wb-western-blot-elisa/13754>