

SIV gp120 recombinant protein

SIV gp120 (Isolate SIVmac251v31523ru28) (aa 31-528)

CATALOG # AAA62207	HOST 293 cell culture	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

SIV gp120; SIV gp120 (Isolate SIVmac251v31523ru28) (aa 31-528); gp120 (SIV/mac251)(isolate SIVmac251v31523ru28); SIV Envelop Protein gp120 (Isolate SIVmac251v31523ru28); SIV gp120 recombinant protein

PRODUCT SPECIFICATIONS

Host	293 cell culture
Purity/Purification	>= 95% purity(SDS-PAGE)
Concentration	1 mg/mL in PBS. (varies by lot)
Applicable Applications for SIV gp120 recombinant protein	ELISA, WB (Western Blot)
Viral Protein	6xHis tagged gp120 (SIV/mac251)(isolate SIVmac251v31523ru28) protein (amino acid 31-528) (Genebank accession#: GU952740)
Preparation and Storage	Store at -20°C. Stable for 3-months from the date of shipment when kept at 4 degree C. Non-hazardous. No MSDS required.

IMAGES



SDS-PAGE

purified SIV gp120 protein (isolate SIVmac251v31523ru28)

ADDITIONAL INFORMATION

Related Product Information for SIV gp120 recombinant protein	6xHis tagged gp120 (SIV/mac251)(isolate SIVmac251v31523ru28) (aa 31-528)(Genebank No. GU952740)purified from 293 cell culture Envelope protein gp120 expressed and purified from 293 cell culture. Envelope glycoprotein GP120 (or gp120) is a glycoprotein exposed on the surface of the HIV envelope. The 120 in its name comes from its molecular weight of 120. Gp120 is essential for virus 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 SIV gp120 recombinant protein	Viral Recombinant Proteins; HIV/SIV
References	1. Stone, M., etc. A limited number of simian immunodeficiency virus (SIV) env variants are transmitted to rhesus macaques vaginally inoculated with SIVmac251. J. Virol. 84 (14), 7083-7095 (2010). 2. Manrique, M., etc. Resistance to infection, early and persistent suppression of SIVmac251 viremia and significant reduction of tissue viral burden after mucosal vaccination in females Rhesus macaques. J Virol. 2013 Oct 23

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://www.aaabiotech.com/siv-gp120-recombinant-protein-293-cell-elisa-wb-western-blot/62207>