**Product Information**

**HIV-1 gp120 protein**
recombinant, expressed in HEK 293 cells

**Product Number SAE0071**

**Storage Temperature** –20 °C

**Synonyms:** Glycoprotein 120 (gp120), Surface protein gp120

**Product Description**

HIV-1 gp120 protein is a glycoprotein exposed on the surface of the HIV envelope. The protein’s name is derived from its apparent molecular mass of 120 kDa. The gp120 protein 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 the CD4 receptor. The presence of gp120 is associated with higher levels of plasma IL-6, IL-10, and TNF-α, which may contribute to immune dysfunction during early HIV infection.

This recombinant, human glycoprotein 120 (gp120) is expressed in human HEK 293 cells as a C-terminal histidine-tagged glycoprotein, with a calculated molecular mass of 55 kDa (amino acids Lys33–Arg511, with a C-terminal 8-histidine tag). The DTT-reduced protein migrates as a 100–130 kDa polypeptide on SDS-PAGE because of glycosylation. This protein is manufactured in human cells, with no serum.

Each vial contains 100 µg of gp120, aseptically filled and lyophilized from a solution of phosphate buffered saline. Vial content was determined by the Bradford method, using BSA as a calibrator.

**Purity:** ≥95% (SDS-PAGE)

**UniProt:** P04578

**Precautions and Disclaimer**

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

**Preparation Instructions**

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile ultrapure water to a final concentration of 100 µg/mL.

This solution can be stored at 2–8 °C for up to 1 week. For extended storage, it is recommended to store reconstituted solutions in working aliquots at –20 °C.

**Storage/Stability**

Store the lyophilized product at –20 °C. The product is stable for at least 2 years as supplied.

**References**


NA,GCY,MAM 10/17-1