

envelope glycoprotein gp120 Protein, HIV-1 (AAC57427, HEK293 , His)

Cat. No.:	HY-P74120
Synonyms:	Envelope glycoprotein gp160; Env polyprotein; gp120; gp41; env
Species:	Virus
Source:	HEK293
Accession:	AAC57427 (T31-R509)
Gene ID:	/
Molecular Weight:	Approximately 55.4 kDa

PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background

envelope glycoprotein gp120 (gp120) is a glycoprotein exposed on the surface of the HIV envelope. Gp120 is essential for viral infection as it facilitates HIV entry into the host cell and 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. gp120 may also be facilitating viral persistence and continuing HIV infection by influencing the T cell immune response to the virus. Several mechanisms may be involved in this process of which gp120 binds to the CD4 receptor of T cells which facilitates viral entry into the CD4+ cells and their depletion. Gp120 is shed from the viral membrane and accumulates in lymphoid tissues in significant amounts. It can induce apoptosis and severely alter the immune response to the virus by dampening the antiviral CTL response thus impeding the clearance of HIV^[1].

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA