envelope glycoprotein gp160 Protein, HIV-1 (ADD25380, HEK293, His)

Cat. No.:	HY-P76383
Synonyms:	HIV-1 gp160 Protein (gp120 subunit) (group N, strain 06CM-U14296)
Species:	Virus
Source:	HEK293
Accession:	ADD25380 (W32-R504)
Gene ID:	/
Molecular Weight:	Approximately 54.4 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	HIV-1 envelope glycoprotein is synthesized as a precursor glycoprotein, gp160, and is then processed into gp120 and gp41[2]. Envelope glycoprotein gp160 Protein (HIV-1 gp160 Protein) is the sole antigenic protein on the surface of the HIV-1 virion and mediates HIV-1 entry into target cells[1]. Noticeably, endoproteolytic processing of HIV-1 gp160 membrane glycoprotein precursor into gp120 and gp41 is necessary for formation of infectious HIV particles[3]. HIV-1 gp160 induces endothelial cell apoptosis and activates caspase-3, which is mediated by CXCR4 chemokine receptor[4].

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