

HIV-1 gp140 Protein (646a.a, HEK293, Fc)

Cat. No.:	HY-P76981
Synonyms:	Human immunodeficiency virus 1 (HIV-1) (group M, subtype C, strain 92BR025) gp140 Protein (Fc)
Species:	Virus
Source:	HEK293
Accession:	AAB61124.1 (N32-I677)
Gene ID:	/
Molecular Weight:	Approximately 150-180 kDa.

PROPERTIES

AA Sequence	<pre> NLWVTVYYGV PVWKEAKTTL FCASDAKAYD AEVHNVWATH ACVPTDPNPQ EMVLENVTEN FNMWENDMVE QMHQDIISLW DQSLKPCVKL TPLCVTLHCS NRTIDYNNRT DNMGGEEKNC SFNMTTEVRD KREKVHALFY RLDIVPLKNE SSNTSGDYRL INCNTSAITQ ACPKVSFDPI PIHYCAPAGY AILKCNKTF NGTGPCNNVS TIQCTHGTKP VVSTQLLLNG SLAEIIIIR SKNLTDNVKT IIVHLNESVE INCTRPNNNT RKSIRIGPGQ AFYATGEIIG DIRQAHCNIS RTAWNKTLQE VGKKLAEHFP NKAIKFAKHS GGDLEITTHS FNCRGEFFYC NTSSLFNSTY TPNSTENITG TENSIIITIPC RIKQIINMWQ GVGRAMYAPP IEGILTCRSN ITGLLLTRDG GTGMHDTEIF RPEGGDMRDN WRSELYKYKV VEIKPLGIAP TKAKRRVVER EKRAVGIGAV FLGFLGAAGS TMGAASITLT VQVRQLLSGI VQQQSNLLRA IEAQQHMLQL TVWGIKQLQT RVLAIERYLR DQQLLGIWGC SGKLICTTAV PWNSSWSNRS QEDIWNNMTW MQWDREISNY TNTIYRLLED SQNQQEKNEQ DLLALDKWQN LWTWFGITNW LWYIKI </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized HIV-1 gp140 at 2µg/mL (100µL/well) can bind Human CD4. The ED ₅₀ for this effect is 0.1687 µg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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 gp140 Protein trimers is the uncleaved ectodomains of (gp160)₃, gp140, has been used as a surrogate for the native state of the cleaved, viral spike. The HIV-1 gp140 trimer has nearly all of the antigenic properties expected for native viral spikes. HIV-1 gp140 Protein can be used for research of vaccine development^[1]. HIV-1 gp140 trimers is able to elicit neutralizing antibody responses in immunized animals^[2].

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

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