

Recombinant HIV1 env Protein, His-tagged

Cat. No. env-764H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HIV1 env protein with His tag was expressed in HEK293.
Species	HIV
Source	HEK293
ProteinLength	858
Description	Attaches the virus to the host lymphoid cell by binding to the primary receptor CD4. This interaction induces a structural rearrangement creating a high affinity binding site for a chemokine coreceptor like CXCR4 and/or CCR5. Acts as a ligand for CD209/DC-SIGN and CLEC4M/DC-SIGNR, which are respectively found on dendritic cells (DCs), and on endothelial cells of liver sinusoids and lymph node sinuses. These interactions allow capture of viral particles at mucosal surfaces by these cells and subsequent transmission to permissive cells. HIV subverts the migration properties of dendritic cells to gain access to CD4+ T-cells in lymph nodes. Virus transmission to permissive T-cells occurs either in trans (without DCs infection, through viral capture and transmission), or in cis (following DCs productive infection, through the usual CD4-gp120 interaction), thereby inducing a robust infection. In trans infection, bound virions remain infectious over days and it is proposed that they are not degraded, but protected in non-lysosomal acidic organelles within the DCs close to the cell membrane thus contributing to the viral infectious potential during DCs' migration from the periphery to the lymphoid tissues. On arrival at lymphoid tissues, intact virions recycle back to DCs' cell surface allowing virus transmission to CD4+ T-cells.

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Form	Lyophilized
Molecular Mass	54 kDa
AA Sequence	MRVRGILRNYQQWWIWGILGFVWLMICNGNLWVTVYYGVPVWKEAKTTLFCASDA KAYEKEVHNWATHACVPTDPNPQEMVLENTENFNMWKNDMVEQMHEDVISLW DQSLKPCVKLTPLCVTLECRQVNTTATSSVNVNNGEEIKNC SFNATTEIRDKKQKV YALFYRLDIVPLEEERKGNSSKYRLINCNTSAITQACPKVTFDPIPIHYCAPAGYAILKC NNKTFNGTGPCNNVSTVQCTHGIKPVVSTQLLLNGSLAEGEIIIRSENLTNNVKTIIVH LNESEIVCTRPNNNTRKSIRIGPGQTFYATGDIIGNIRQAYCNIKKDDWIRTLQRVGK KLAEHFPRRIINFTSPAGGDLEITTHSFNCRGEFFYCNTSSLFNSTYNPNDTNSNSSS SNSSLDITIPCRIKQIINMWQEVGRAMYAPPIEGNITCKSNITGLLLVRDGGVESNETEI FRPGGGDMRNNWRSELYKYKVVEIKPLGIAPTAARKRRVVEREKRAVGLGAVIFGFL GAAGSTMGAASITLTVQARQLLSGIVQQQSNLLKAIEAQQHLLQLTVWGIKQLQTRV LAIERYLKDQQLLGIWGC SGKLICTTAVPWNSSWSN KSHDEIWGNMTWMQWDREI SNYNTIYRLLED SQNQEQNEKDLLALDSWENLWNWFSITKWLWYIKIFIMIVGGLI GLRIIFAVLSVVNRVRQGYSPLSFQTLIPNPRGPDRPGRIEEEGGEQDRGRSTRLVS GFLALVWDDLRLSLCLFSYHRLRDFTLVAARVVELLGRSSLKGLQKGWEALRYLGSL VQYWGLELKKSAISLFDITIAIAVAEGTDRIIELAQGIGRAIINIPRRIRQGFEAALQ
Purity	> 98%
Applications	WB; ELISA; FACS; FC
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	At -20 centigrade.

Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H ₂ O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.
GENE INFORMATION	
Gene Name	env Envelope surface glycoprotein gp160, precursor [Human immunodeficiency virus 1]
Official Symbol	env
Synonyms	env; Envelope surface glycoprotein gp160, precursor; HIV1gp8; Envelope surface glycoprotein gp160, precursor; hypothetical protein; Envelope surface glycoprotein gp120; Envelope transmembrane domain; Glycoprotein 120; gp120; SU; Surface protein
Gene ID	155971
Protein Refseq	NP_057856
UniProt ID	P04578