

Product datasheet

Recombinant Human HIV-1 gp120 (CN54) protein
ab174070

1 Image

Overview

Product name	Recombinant Human HIV-1 gp120 (CN54) protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	HEK 293 cells
Amino Acid Sequence	
Accession	ABL67444.1
Species	Human
Sequence	<p>TVYYGVPVWKEAKTTLFCASDAKAYEKEVHNVWATH ACVPTDPNPQEMVL ENVTENFNMWKNDMVEQMHEDVISLWDQSLKPCVKL TPLCVTLECRQVNT TNATSSVNVNTNGEEIKNCSFNATTEIRDKKQKVYALFYR LDVPLEEERK GNSSKYRLINCNTSAITQACPKVTFDPIPIHYCAPAGYAI LKCNKTFNG TGPCNNVSTVQCTHGIKPVVSTQLLLNGSLAEGEIIIRSE NLTNNVKTII VHLNESVEIVCTRPNNNTRKSIRIGPGQTFYATGDIIGNIR QAYCNIKKD DWIRTLQRVGKKLAEHFPRRIINF TSPAGGDLEITTHSF NCRGEFFYCNT SSLFNSTYNPNDTNSNSSSSNSSLDITIPCRKQIINMWQ EVGRAMYAPP IEGNITCKSNITGLLLVRDGGVESNETEIFRPGGGDMRN NWRSELYKYK V EIKPLGIAP TAAKRRVVEREKR</p>
Molecular weight	54 kDa including tags
Amino acids	34 to 506
Tags	His tag C-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab174070** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Endotoxin level	< 1.000 Eu/μg
Purity	>95% by SDS-PAGE .
Form	Lyophilised

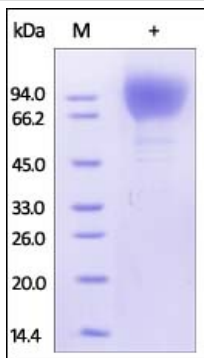
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at 4°C prior to reconstitution. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Information available upon request.
Reconstitution	It is recommended to reconstitute the lyophilized product in 100 μl sterile deionized water to a final concentration of 1 mg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage. After reconstitution store under sterile conditions for 1 month at 4°C - 8°C or 3 months at -20°C to -80°C. Aliquot to avoid repeated freeze-thaw cycles.

General Info

Relevance	The envelope glycoprotein gp160 precursor down-modulates cell surface CD4 antigen by interacting with it in the endoplasmic reticulum and blocking its transport to the cell surface. By similarity, the gp120-gp41 heterodimer allows rapid transcytosis of the virus through CD4 negative cells such as simple epithelial monolayers of the intestinal, rectal and endocervical epithelial barriers. Both gp120 and gp41 specifically recognize glycosphingolipids galactosyl-ceramide (GalCer) or 3' sulfo-galactosyl-ceramide (GalS) present in the lipid rafts structures of epithelial cells. Binding to these alternative receptors allows the rapid transcytosis of the virus through the epithelial cells. This transcytotic vesicle-mediated transport of virions from the apical side to the basolateral side of the epithelial cells does not involve infection of the cells themselves.
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Images



SDS-PAGE - Recombinant Human HIV-1 gp120
(CN54) protein (ab174070)

SDS-PAGE analysis of reduced ab174070 stained overnight with Coomassie Blue.

DTT-reduced Protein migrates as 65-110 kDa due to glycosylation.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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