

Product datasheet

Recombinant Human HIV-1 gp120 (CN54) protein
ab174070

1 References 1 Image

Description

Product name	Recombinant Human HIV-1 gp120 (CN54) protein	
Purity	> 95 % SDS-PAGE.	
Endotoxin level	< 1.000 Eu/μg	
Expression system	HEK 293 cells	
Accession	ABL67444.1	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	<p>TVYYGVPVWKEAKTTLFCASDAKAYEKEVHNWATHACV PTDNPQEMVL ENVTFENFMWKNMVEQMHEDEVISLWDQSLKPCVKLTP LCVTLECRQVNT TNATSSVNVNNGEEIKNCSFNATTEIRDKKQKVYALFYRLDI VPLEEERK GNSSKYRLINCNTSAITQACPKVTFDPIPIHYCAPAGYAILKC NNKTFNG TGPCNNVSTVQCTHGIKPVVSTQLLLNGSLAEGEIIIRSEN L TNNVKTI VHLNESVEIVCTRPNNNTRKSIRIGPGQTFYATGDIIGNIRQA YCNIKKD DWIRTLQRVGGKLAEHFPRRIINFTSPAGGDLEITTHSFNCR GEFFYCNT SSLFNSTYNPNDTNSNSSSSNSSLDITIPCRIKQIINMWQEV GRAMYAPP IEGNITCKSNITGLLLVRDGGVESNETEIFRPGGGDMRNNW RSELYKYKV VEIKPLGIAPTAAKRRVVEREK</p>	
Predicted 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

Form Lyophilized

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.

pH: 7.40

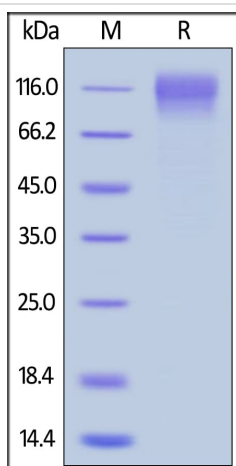
Constituents: 95% PBS, 5% Trehalose

Reconstitution Reconstitute with sterile deionized water to a concentration of 400 µg/ml.

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.

Images



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

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

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

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