Envelope Glycoprotein Gp160 (env) Simian Immunodeficiency Virus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Envelope glycoprotein gp160 (env), Recombinant Protein
Full Product Name	Recombinant Simian immunodeficiency virus Envelope glycoprotein gp160 (env), partial
Product Gene Name	env recombinant protein
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	94,410 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P22380
Species	Simian immunodeficiency virus (isolate GB1) (SIV-mnd) (Simian immunodeficiency virus mandrill)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for env recombinant protein	MBS1083377 is a recombinant protein targeting env. Also known as Recombinant Simian immunodeficiency virus Envelope glycoprotein gp160 (env), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of env recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for env. It may not necessarily be applicable to this product.

NCBI GI #	119495
NCBI Accession #	P22380.1
UniProt Primary Accession #	P22380
NCBI Official Full Name	Envelope glycoprotein gp160
UniProt Protein Name	Envelope glycoprotein gp160
UniProt Synonym Protein Names	Env polyprotein
Protein Family	Envelope glycoprotein
UniProt Gene Name	env
UniProt Synonym Gene Names	SU; gp120; TM; gp32

UniProt Comments for env	The surface protein gp120 (SU) 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 CCR5. This peculiar 2 stage receptor-interaction strategy allows gp120 to maintain the highly conserved coreceptor-binding site in a cryptic conformation, protected from neutralizing antibodies. These changes are transmitted to the transmembrane protein gp41 and are thought to activate its fusogenic potential by unmasking its fusion peptide ().
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