Virion Infectivity Factor (vif) Simian Immunodeficiency Virus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Virion infectivity factor (vif), Recombinant Protein
Full Product Name	Recombinant Simian immunodeficiency virus Virion infectivity factor (vif)
Product Gene Name	vif recombinant protein
Product Synonym Gene Name	vif
Sequence	MENRWQVMIV WQVDRMRIKT WNSLVKHHMY VSRKARNWFY RHHYESNNPK ISSEVHIPLG EAKLVITTYW GLTTGERAWH LGHGVSIEWR QRSYRTQIDP DLADQLIHLY YFDCFAESAI RKAILGQIVS PRCEYPTGHN KVGSLQYLAL STLIKSKPRR PPLPSVRKLA EDRWNNSQKT RDHKGNHIMN GH
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	22,725 Da
Sequence Positions	1-192, Full length protein
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 Q1A266
Species	Simian immunodeficiency virus (isolate MB66) (SIV-cpz) (Chimpanzee immunodeficiency virus)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for vif recombinant protein	MBS1375178 is a recombinant protein targeting vif. Also known as Recombinant Simian immunodeficiency virus Virion infectivity factor (vif). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of vif 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 vif. It may not necessarily be applicable to this product.

NCBI GI #	114154828
NCBI Accession #	Q1A266.1
UniProt Primary Accession #	Q1A266
NCBI Official Full Name	Virion infectivity factor
UniProt Protein Name	Virion infectivity factor
UniProt Synonym Protein Names	SOR protein

Protein Family	Truncated virion infectivity factor
UniProt Gene Name	vif
UniProt Synonym Gene Names	Vif
UniProt Comments for vif	Counteracts the innate antiviral activity of host APOBEC3F and APOBEC3G. Forms a complex with host APOBEC3F and APOBEC3G thus preventing the entry of these lethally hypermutating enzymes into progeny virions. Recruits an active E3 ubiquitin ligase complex composed of elongin BC, CUL5, and RBX2 to induce polyubiquitination of APOBEC3G and APOBEC3F. In turn, they are directed to the 26S proteasome for degradation. Vif interaction with APOBEC3G also blocks its cytidine deaminase activity in a proteasome-independent manner, suggesting a dual inhibitory mechanism. May interact directly with APOBEC3G mRNA in order to inhibit its translation. Seems to play a role in viral morphology by affecting the stability of the viral nucleoprotein core. Finally, Vif also contributes to the G2 cell cycle arrest observed in HIV infected cells.
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