

Protein Vpx Recombinant Protein | vpx recombinant protein

Recombinant Simian immunodeficiency virus Protein Vpx (Vpx)

CATALOG # AAA18697	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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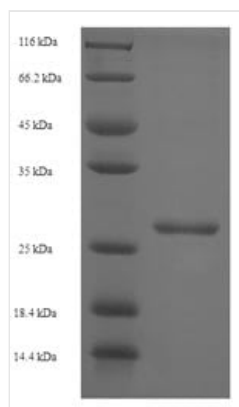
PRODUCT SYNONYMS

Protein Vpx; Recombinant Simian immunodeficiency virus Protein Vpx (Vpx); Viral protein X; X ORF protein; vpx recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-112aa; Full Length
Sequence	MSDPRERIPP GNSGEETIGE AFDWLDRTVE EINRAAVNHL PRELIFQVWR RSWEYWHDEM GMSVSYTKYR YLCLIQKAMF MHCKKGCRL GGEHGAGGWR PGPPPPPPG LA
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for vpx recombinant protein

Plays a role in nuclear translocation of the viral pre-integration complex (PIC), thus is required for the virus to infect non-dividing cells. Targets specific host proteins for degradation by the 26S proteasome. Acts by associating with the cellular CUL4A-DDB1 E3 ligase complex through direct interaction with host VPRPB/DCAF-1. This change in the E3 ligase substrate specificity results in the degradation of host SAMHD1. In turn, SAMHD1 depletion allows viral replication in host myeloid cells by preventing SAMHD1-mediated hydrolysis of intracellular dNTPs necessary for reverse transcription.

References	Sequence analysis and acute pathogenicity of molecularly cloned SIVSMM-PBj14.Dewhurst S., Embretson J.E., Anderson D.C., Mullins J.I., Fultz P.N.Nature 345:636-640(1990) Molecular clones from a non-acutely pathogenic derivative of SIVsmmPBj14 characterization and comparison to acutely pathogenic clones.Dewhurst S., Embretson J.E., Fultz P.N., Mullins J.I.AIDS Res. Hum. Retroviruses 8:1179-1187(1992) The human immunodeficiency virus type 2 Vpx protein usurps the CUL4A-DDB1 DCAF1 ubiquitin ligase to overcome a postentry block in macrophage infection.Bergamaschi A., Ayinde D., David A., Le Rouzic E., Morel M., Collin G., Descamps D., Damond F., Brun-Vezinet F., Nisole S., Margottin-Goguet F., Pancino G., Transy C.J. Virol. 83:4854-4860(2009) Structural basis of lentiviral subversion of a cellular protein degradation pathway.Schwefel D., Groom H.C., Boucherit V.C., Christodoulou E., Walker P.A., Stoye J.P., Bishop K.N., Taylor I.A.Nature 505:234-238(2014)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	139461
UniProt Accession #	P19508
Molecular Weight	28.9 kDa
NCBI Official Full Name	Protein Vpx
UniProt Protein Name	Protein Vpx
UniProt Gene Name	vpx
UniProt Entry Name	VPX_SIVSP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.