Minor Capsid Protein L2 (L2) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Minor capsid protein L2 (L2), Recombinant Protein
Full Product Name	Recombinant Minor capsid protein L2 (L2)
Product Gene Name	L2 recombinant protein
Sequence	MPPQRSRRRK RASATQLYQT CKASGTCPPD VIPKVEGTTL ADKILQWGSL GVFFGGLGIG TGAGTGGRTG YVPLGTRPPV IAEPGPAVRP PIAVDTVGPS DPSIVSLLEE SSVIDAGITV PDITSHGGFN ITTSTGGPAS TPAILDISPP TNTIRVTTTT STNPLYIDPF TLQPPLPAEV NGRLLISTPT ITPHSYEEIP MDTFVVSTDT TNTFTSTPIP GPRSSARLGL YSRATQQRPV TTSAFLTSPA RLVTYDNPAY EGLTEDTLVF EHPSIHTAPD PDFMDIVALH RPMLSSKQGS VRVSRIGQRL SMQTRRGTRF GSRVHFFHDL SPITHSSETI ELQPLSASSV SAASNINDGL FDIYVDTSDV NVTNTTSSIP MHGFATPRLS TTSFPTLPSM STHSANTTIP FSFPATVHVG PDLSVVDHPW DSTPTSVMPQ GNFVMVSGWD FILHPSYFWR RRRKPVPYFF ADVRVAA
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	51,254 Da
Sequence Positions	1-477, 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 P27235
Species	Human papillomavirus type 42
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for L2 recombinant protein	MBS1225745 is a recombinant protein targeting L2. Also known as Recombinant Minor capsid protein L2 (L2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of L2 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 L2. It may not necessarily be applicable to this product.

NCBI GI #	138675
NCBI Accession #	P27235.1
UniProt Primary Accession #	P27235
NCBI Official Full Name	Minor capsid protein L2
UniProt Protein Name	Minor capsid protein L2

Protein Family	Core-capsid bridging protein
UniProt Gene Name	L2
UniProt Comments for L2	Minor protein of the capsid that localizes along the inner surface of the virion, within the central cavities beneath the L1 pentamers. Plays a role in capsid stabilization through interaction with the major capsid protein L1. Once the virion enters the host cell, L2 escorts the genomic DNA into the nucleus by promoting escape from the endosomal compartments and traffic through the host Golgi network. Plays a role through its interaction with host dynein in the intracellular microtubule-dependent transport of viral capsid toward the nucleus. Mediates the viral genome import into the nucleus through binding to host importins. Once within the nucleus, L2 localizes viral genomes to host PML bodies in order to activate early gene expression for establishment of infection. Later on, promotes late gene expression by interacting with the viral E2 protein and by inhibiting its transcriptional activation functions. During virion assembly, encapsidates the genome by direct interaction with the viral DNA.
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