Core Protease I7 (I7L) Variola Virus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Core protease I7 (I7L), Recombinant Protein
Full Product Name	Recombinant Variola virus Core protease I7 (I7L)
Product Gene Name	I7L recombinant protein
Sequence	MERYTDLVIS KIPELGFTNL LCHIYSLAGL CSNIDVSKFL TNCNGYVVEK YDKSTTAGKV SCIPIGMMLE LVESRHLSRP NSSDELDQKK ELTDELKTRY HSIYDVFELP TSIPLAYFFK PRLREKVSKA IDFSQMDLKI DDLSRKGIHT GENPKVVKMK IEPERGAWMS NRSIKNLVSQ FAYGSEVDYI GQFDMRFLNS LAIHEKFDAF MNKHILSYIL KDKIKSSTSR FVMFGFCYLS HWKCVIYDKK QCLVSFYDSG GNIPTEFHHY NNFYFYSFSD GFNTNHRHSV LDNTNCDIDV LFRFFECIFG AKIGCINVEV NQLLESECGM FISLFMILCT RTPPKSFKSL KKVYTFFKFL ADKKMTLFKS ILFNLQDLSL DITETDNAGL KEYKRMEKWT KKSINVICDK LTTKLNRIVD DDE
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	49,142 Da
Sequence Positions	1-423, 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 P33003
Species	Variola virus (isolate Human/India/Ind3/1967) (VARV) (Smallpox virus)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for I7L recombinant protein	MBS1230614 is a recombinant protein targeting I7L. Also known as Recombinant Variola virus Core protease I7 (I7L). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of I7L 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 I7L. It may not necessarily be applicable to this product.

NCBI GI #	9627582
NCBI GeneID	1486462
NCBI Accession #	NP_042105.1
UniProt Primary Accession #	P33003
UniProt Related Accession #	AAB29602

GenBank Nucleotide #	NC_001611.1
NCBI Official Full Name	hypothetical protein VARVgp061
NCBI Official Symbol	K7L
UniProt Protein Name	Core protease I7
Protein Family	Core protease
UniProt Gene Name	I7L
NCBI Protein Information	K7L
UniProt Comments for I7L	Late protein responsible for processing most or all of the viral core and membrane proteins known to undergo morphogenesis-associated proteolysis. These proteolytic events are involved in the transformation of immature virions (IV) into mature virions (MV). Probably cleaves at least the A3, A10, L4, and A17 precursors preferentially at Ala-Gly-|-Ala motifs. Also seems to process Ala-Gly-|-Ser and Ala-Gly-|-Thr motifs ().
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