Capsid Protein (ORF2) Cucumber Necrosis Virus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Capsid protein (ORF2), Recombinant Protein
Full Product Name	Recombinant Cucumber necrosis virus Capsid protein (ORF2)
Product Gene Name	ORF2 recombinant protein
Sequence	MALVSRNNNM RTLAKLAAPL ATAGTRTIVD NKEAIWNGVK WIWGKLPKGK KGKNGNGALI AHPQAFPGAI AAPISYAYAV KGRKPRFQTA KGSVRITHRE YVSVLSGTNG EFLRNNGTGP NNDFSINPLN PFLFPWLVNI AANFDQYKFN SLRFEYVPLV NTTTNGRVAL YFDKDSEDPG PDDRAALANY AHLSEISPWA ITKLTVPTDN VKRFISDTSS GDPKLINLGQ FGWVAYSGPT AELGDIFVEY TVDLFEAQPT SPLLESLFRE SASSVQTRMG LPYFSLEVAS ATDLVWQARV PGTYVVTIIF NSTVGGLTPS ISGGGTINSS FSVSTAGSSA YVANITIRVN ANLSLSGLTG ATNAQLFAVR AITENAVQVV
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	40,878 Da
Sequence Positions	1-380, 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 P15183
Species	Cucumber necrosis virus (CNV)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ORF2 recombinant protein	MBS1032250 is a recombinant protein targeting ORF2. Also known as Recombinant Cucumber necrosis virus Capsid protein (ORF2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ORF2 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 ORF2. It may not necessarily be applicable to this product.

NCBI GI #	9626674
NCBI GeneID	1493950
NCBI Accession #	NP_040955.1
UniProt Primary Accession #	P15183
GenBank Nucleotide #	NC_001469.1

NCBI Official Full Name	coat protein
NCBI Official Symbol	CuNVgp3
UniProt Protein Name	Capsid protein
UniProt Synonym Protein Names	Coat protein; p41
Protein Family	61 kDa protein
UniProt Gene Name	ORF2
NCBI Protein Information	coat protein
UniProt Comments for ORF2	Capsid protein self-assembles to form an icosahedral capsid with a T=3 symmetry, about 32-35 nm in diameter, and consisting of 180 capsid proteins.
Research Articles on ORF2	**1.** The RNA binding region is found to be dually targeted to mitochondria and chloroplasts suggesting that this region of the coat protein plays a critical role in determining the fate of coat protein during the infection process.
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