Capsid Protein VP1 Porcine Parvovirus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Capsid protein VP1, Recombinant Protein
Full Product Name	Recombinant Porcine parvovirus Capsid protein VP1, partial
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	64,247 Da
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 P52501
Species	Porcine parvovirus (strain Kresse) (PPV)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Capsid protein VP1 recombinant protein	MBS1260837 is a recombinant protein targeting Capsid protein VP1. Also known as Recombinant Porcine parvovirus Capsid protein VP1, partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Capsid protein VP1 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 Capsid protein VP1. It may not necessarily be applicable to this product.

NCBI GI #	1705965
NCBI Accession #	P52501.1
UniProt Primary Accession #	P52501
NCBI Official Full Name	Capsid protein VP1
UniProt Protein Name	Capsid protein VP1
UniProt Synonym Protein Names	Coat protein VP1
Protein Family	Capsid protein

UniProt Comments for Capsid protein VP1	Capsid protein self-assembles to form an icosahedral capsid with a T=1 symmetry, about 22 nm in diameter, and consisting of 60 copies of two size variants of the capsid proteins, VP1 and VP2, which differ by the presence of an N-terminal extension in the minor protein VP1. The capsid encapsulates the genomic ssDNA. Capsid proteins are responsible for the attachment to host cell receptors. This attachment induces virion internalization predominantly through clathrin-dependent endocytosis. Binding to the host receptors also induces capsid rearrangements leading to surface exposure of VP1 N-terminus, specifically its phospholipase A2-like region and putative nuclear localization signal(s). VP1 N-terminus might serve as a lipolytic enzyme to breach the endosomal membrane during entry into host cell and might contribute to virus transport to the nucleus ().
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