Genome Polyprotein (P2A) Human Enterovirus 71 Recombinant Protein

PRODUCT OVERVIEW

Product Name	Genome polyprotein (P2A), Recombinant Protein
Full Product Name	Recombinant Human enterovirus 71 Genome polyprotein
Product Gene Name	P2A recombinant protein
Sequence	GSQVSTQRSG SHENSNSATE GSTINYTTIN YYKDSYAATA GKQSLKQDPD KFANPVKDIF TEMAAPLKSP SAEACGYSDR VAQLTIGNST ITTQEAANII VGYGEWPSYC SDDDATAVDK PTRPDVSVNR FYTLDTKLWE KSSKGWYWKF PDVLTETGVF GQNAQFHYLY RSGFCIHVQC NASKFHQGAL LVAILPEYVI GTVAGGTGTE DSHPPYKQTQ PGADGFELQH PYVLDAGIPI SQLTVCPHQW INLRTNNCAT IIVPYMNTLP FDSALNHCNF GLLVVPISPL DFDQGATPVI PITITLAPMC SEFGGLRQAV TQ
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	242,657 Da
Sequence Positions	2-323, 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 Q66479
Species	Human enterovirus 71 (strain 7423/MS/87) (Ev 71)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for P2A recombinant protein	MBS1327007 is a recombinant protein targeting P2A. Also known as Recombinant Human enterovirus 71 Genome polyprotein. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of P2A 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 P2A. It may not necessarily be applicable to this product.

NCBI GI #	2499562
NCBI Accession #	Q66479.3
UniProt Primary Accession #	Q66479
NCBI Official Full Name	Genome polyprotein
UniProt Protein Name	Genome polyprotein
UniProt Synonym Protein Names	P3Protein 3ABP2P1Capsid protein VP0Alternative name(s):VP4-VP2

Protein Family	Genome polyprotein
UniProt Gene Name	P2A
UniProt Synonym Gene Names	P2B; P2C; P3A; VPg; P3B; P3C; RdRp; 3Dpol; 3D
UniProt Comments for P2A	Capsid protein VP1: Forms an icosahedral capsid of pseudo T=3 symmetry with capsid proteins VP2 and VP3. The capsid is 300 Angstroms in diameter, composed of 60 copies of each capsid protein and enclosing the viral positive strand RNA genome. Capsid protein VP1 mainly forms the vertices of the capsid. Capsid protein VP1 interacts with host cell receptor to provide virion attachment to target host cells. This attachment induces virion internalization. Tyrosine kinases are probably involved in the entry process. After binding to its receptor, the capsid undergoes conformational changes. Capsid protein VP1 N-terminus (that contains an amphipathic alpha-helix) and capsid protein VP4 are externalized. Together, they shape a pore in the host membrane through which viral genome is translocated to host cell cytoplasm. After genome has been released, the channel shrinks ().
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