Polyomavirus Large T Antigen (BPyV_gp5) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	polyomavirus Large T antigen (BPyV_gp5), Recombinant Protein
Full Product Name	Recombinant Bovine polyomavirus Large T antigen, partial
Product Gene Name	BPyV_gp5 recombinant protein
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	14,011 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 P24851
Species	Bovinepolyomavirus (BPyV)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for BPyV_gp5 recombinant protein	MBS1163701 is a recombinant protein targeting BPyV_gp5. Also known as Recombinant Bovine polyomavirus Large T antigen, partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of BPyV_gp5 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 BPyV_gp5. It may not necessarily be applicable to this product.

NCBI GI #	312332210
NCBI GeneID	29031001
NCBI Accession #	NP_040788.2
UniProt Primary Accession #	P24851
UniProt Secondary Accession #	Q84248; Q90051
UniProt Related Accession #	P24851
GenBank Nucleotide #	NC_001442.1
NCBI Official Full Name	large T antigen
NCBI Official Symbol	BPyV_gp5

UniProt Protein Name	Large T antigen
UniProt Gene Name	LT
UniProt Synonym Gene Names	LT-AG
NCBI Protein Information	large T antigen
UniProt Comments for BPyV_gp5	Isoform large T antigen is a key early protein essential for both driving viral replication and inducing cellular transformation. Plays a role in viral genome replication by driving entry of quiescent cells into the cell cycle and by autoregulating the synthesis of viral early mRNA. Displays highly oncogenic activities by corrupting the host cellular checkpoint mechanisms that guard cell division and the transcription, replication, and repair of DNA. Participates in the modulation of cellular gene expression preceeding viral DNA replication. This step involves binding to host key cell cycle regulators retinoblastoma protein RB1/pRb and TP53. Induces the disassembly of host E2F1 transcription factors from RB1, thus promoting transcriptional activation of E2F1-regulated S-phase genes. Inhibits host TP53 binding to DNA, abrogating the ability of TP53 to stimulate gene expression. Plays the role of a TFIID-associated factor (TAF) in transcription initiation for all three RNA polymerases, by stabilizing the TBP-TFIIA complex on promoters. Initiates viral DNA replication and unwinding via interactions with the viral origin of replication. Binds two adjacent sites in the SV40 origin. The replication fork movement is facilitated by Large T antigen helicase activity. Activates the transcription of viral late mRNA, through host TBP and TFIIA stabilization. Interferes with histone deacetylation mediated by HDAC1, leading to activation of transcription.
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