

Major capsid protein VP1 Recombinant Protein | BKPyVgp4 recombinant protein

Recombinant BK polyomavirus Major capsid protein VP1

CATALOG #
AAA115977

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

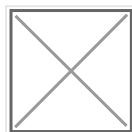
PRODUCT SYNONYMS

Major capsid protein VP1; Recombinant BK polyomavirus Major capsid protein VP1; Major structural protein VP1; BKPyVgp4 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-362aa; Full Length
Sequence	MAPTKRKGECAAGAPKKPKPEVQVQPKLLIKGGVEVLEVKTGVDAITEVECFLNPEMGDPDENLRGFSLLKSAENDFSSDS PERKMLPCYSTARIPLPNLNLNEDLTCGNLLMWEAVTVQTEVIGITSMNLNHAGSQKVHEHGGGKPIQGSNFHFFAVGGGEPL EMQGVLMNYR SKYPDGTITPKNPTAQSQVMNTDCHKAYLDKNNAYPVECWVPDPSRNENARYFGTFTGGENVPPVLHVTNTATTVLLDEQG VGPLCKADSLYVSAADICGLFTNSSGTQQWRGLARYFKIRLRKRSVKNPYPISFLLSDLI NRRTQRVDGQPMYGMESQVEVRVFDGTERLPGDPPMIRYIDKQGQLQTKML
Sequence Length	362
Species	BK polyomavirus (BKPyV)
Production Note	Special Offer: The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Colihost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
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.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for BKPyVgp4 recombinant protein	Forms an icosahedral capsid with a T=7 symmetry and a 50 nm diameter. The capsid is composed of 72 pentamers linked to each other by disulfide bonds and associated with VP2 or VP3 proteins. Interacts with gangliosides GT1b and GD1b containing terminal alpha2-8-linked sialic acids on the cell surface to provide virion attachment to target cell. This attachment induces virion internalization predominantly through caveolin-mediated endocytosis and traffics to the endoplasmic reticulum. Inside the endoplasmic reticulum, the protein folding machinery isomerizes VP1 interpentamer disulfide bonds, thereby triggering initial uncoating. Next, the virion uses the endoplasmic reticulum-associated degradation machinery to probably translocate in the cytosol before reaching the nucleus. Nuclear entry of the viral DNA involves the selective exposure and importin recognition of VP2/Vp3 nuclear localization signal. In late phase of infection, neo-synthesized VP1 encapsulates replicated genomic DNA in the nucleus, and participates in rearranging nucleosomes around the viral DNA
Product Categories/Family for BKPyVgp4 recombinant protein	Microbiology

NCBI AND UNIPROT INFORMATION

NCBI GI #	113204634
NCBI GeneID	1489515
NCBI Accession #	YP_717939.1
NCBI GenBank Nucleotide #	NC_001538.1
UniProt Accession #	P03088; Q84322
Molecular Weight	60.1 kDa
NCBI Official Full Name	VP1
NCBI Official Symbol	BKPyVgp4
NCBI Protein Information	VP1
UniProt Protein Name	Major capsid protein VP1
UniProt Entry Name	VP1_POVBK

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.