

BK polyomavirus Minor capsid protein VP2 Recombinant Protein | VP2 recombinant protein

Recombinant BK polyomavirus Minor capsid protein VP2

CATALOG # AAA114951	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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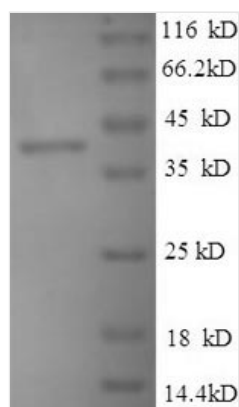
PRODUCT SYNONYMS

BK polyomavirus Minor capsid protein VP2; Recombinant BK polyomavirus Minor capsid protein VP2; VP2 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	2-351aa; Full Length of Mature Protein
Sequence	GAALALLGDL VASVSEAAAA TGFSVAEIAA GEAAAAIEVQ IASLATVEGI TSTSEIAAAI GLTPQTYAVI AGAPGAIAGF AALIQTVSGI SSLAQVGYRF FSDWDHKVST VGLYQQSGMA LELFNPDEYY DILFPGVNTE VNNIQYLDPR HWGPSLFATI SQALWHVIRD DIPSITSQEL QRRTERFFRD SLARFLEETT WTIVNAPINF YNYIQYYSD LSPIRPSMVR QVAEREGTRV HFGHTYSIDD ADSIEEVTQR MDLRNQSVH SGFIEKTIA PGGANQRTAP QWMLPLLGL YGTVTPALEA YEDGPNQKKR RVSRGSSQKA KGTRASAKTT NKRRSRSSRS
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 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for VP2 recombinant protein	Isoform VP2 is a structural protein that resides within the core of the capsid surrounded by 72 VP1 pentamers. Participates in host cell receptor binding together with VP1. Following virus endocytosis and trafficking to the endoplasmic reticulum, VP2 and VP3 form oligomers and integrate into the endoplasmic reticulum membrane. Heterooligomer VP2-VP3 may create a viroporin for transporting the viral genome across the endoplasmic reticulum membrane to the cytoplasm. Nuclear entry of the viral DNA involves the selective exposure and importin recognition of VP2 or Vp3 nuclear localization signal (shared C-terminus). Plays a role in virion assembly within the nucleus in particular through a DNA-binding domain located in the C-terminal region. A N-terminal myristoylation suggests a scaffold function for virion assembly. Isoform VP3: structural protein that resides within the core of the capsid surrounded by 72 VP1 pentamers. Following virus endocytosis and trafficking to the endoplasmic reticulum, VP2 and VP3 form oligomers and integrate into the endoplasmic reticulum membrane. Heterooligomer VP2-VP3 may create a viroporin for transporting the viral genome across the endoplasmic reticulum membrane to the cytoplasm. Nuclear entry of the viral DNA involves the selective exposure and importin recognition of VP2 or Vp3 nuclear localization signal (shared C-terminus). Isoform VP3 plays a role in virion assembly within the nucleus. May participate in host cell lysis when associated with VP4. Isoform VP4 is a viroporin inducing perforation of cellular membranes to trigger virus progeny release. Forms pores of 3 nm inner diameter. VP4 is expressed about 24 hours after the late structural proteins and is not incorporated into the mature virion.
References	Nucleotide sequence of the human polyomavirus AS virus, an antigenic variant of BK virus.Tavis J.E., Walker D.L., Gardner S.D., Frisque R.J.J. Virol. 63:901-911(1989) The Polyomaviridae Contributions of virus structure to our understanding of virus receptors and infectious entry.Neu U., Stehle T., Atwood W.J.Virology 384:389-399(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	116641
UniProt Accession #	P14997
Molecular Weight	40.2 kDa
NCBI Official Full Name	Minor capsid protein VP2
UniProt Protein Name	Minor capsid protein VP2
UniProt Entry Name	VP2_POVBA

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.

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Online datasheet: <https://www.aaabiotech.com/bk-polyomavirus-minor-capsid-protein-vp2-recombinant-protein-e-coli/114951>