

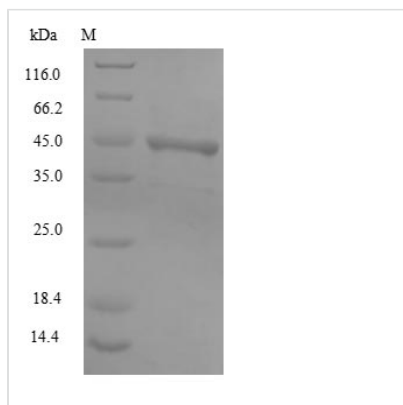


# Recombinant BK polyomavirus Major capsid protein VP1

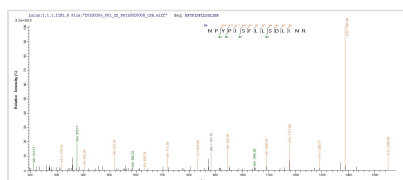
<b>Product Code</b>	CSB-EP360953BGYb1
<b>Relevance</b>	Forms an icosahedral capsid with a T=7 symmetry and a 50 nm diameter. The capsid is composed of 72 pentamers linked to each other by disulfide bonds and associated with VP2 or VP3 proteins. Interacts with gangliosides GT1b and GD1b containing terminal 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
<b>Abbreviation</b>	Recombinant BK polyomavirus Major capsid protein VP1 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P03088
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	BK polyomavirus (BKPyV)
<b>Purity</b>	Greater than 85% as determined by SDS-PAGE.
<b>Sequence</b>	MAPTKRKGECPGAAPKKPKPEVQVPKLLIKGGVEVLEVKTGVDAITEVECFNLN PEMGDPDENLRGFSLLKLSAENDFSSDSPERKMLPCYSTARIPNLNEDLTG NLLMWEAVTVQTEVIGITSMLNLHAGSQKVHEHGGGKPIQGSNFHFFAVGGE PLEMQGVLMNYRSKYDPGTITPKNPTAQSQVMNTDHKAYLDKNNAYPVECW VPDPSRNENARYFGTFTGGENVPPVLHVTNTATTVLLDEQGVGPLCKADSLY VSAADICGLFTNSSGTQQWRGLARYFKIRLRKRSVKNPYPISFLLSDLINRRTQ RVDGQPMYGMESQVEEVRVFDGTERLPGDPDMIRYIDKQGQLQTKML
<b>Research Area</b>	others
<b>Source</b>	E.coli
<b>Protein Names</b>	Major structural protein VP1
<b>Expression Region</b>	1-362aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.



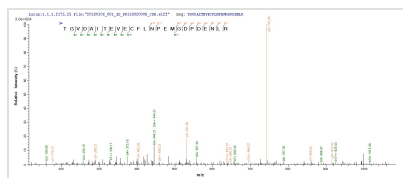
<b>Tag Info</b>	N-terminal 10xHis-tagged and C-terminal Myc-tagged
<b>Mol. Weight</b>	45.1kDa
<b>Protein Length</b>	Full Length

**Image**


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP360953BGYb1 could indicate that this peptide derived from E.coli-expressed BK polyomavirus (BKPyV) (Human polyomavirus 1) N/A.



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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

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