

Capsid protein VP2 Recombinant Protein | CAPSD recombinant protein

Recombinant Human parvovirus B19 (isolate AU) (HPV B19) Capsid protein VP2

CATALOG # AAA309756	HOST E Coli	REACTIVITY PAVHU
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PRODUCT SYNONYMS

Capsid protein VP2; Recombinant Human parvovirus B19 (isolate AU) (HPV B19) Capsid protein VP2; CAPSD recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	PAVHU
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	20mM Tris-HCl based buffer, pH8.0
Sequence Positions	Full Length, 228-781aa
Tag Info	His-tag
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.

ADDITIONAL INFORMATION

Related Product Information for CAPSD recombinant protein	Capsid protein self-assembles to form an icosahedral capsid with a T=1 symmetry, about 22 nm in diameter, and consisting of 60 copies of two size variants of the capsid proteins, VP1 and VP2, which differ by the presence of an N-terminal extension in the minor protein VP1. The capsid encapsulates the genomic ssDNA. Capsid proteins are responsible for the attachment to host cell receptors, such as the glycosphingolipid globoside or the integrin heterodimer ITGAV/ITGB1. This attachment induces virion internalization predominantly through clathrin-dependent endocytosis. Binding to the host receptors also induces capsid rearrangements leading to surface exposure of VP1 N-terminus, specifically its phospholipase A2-like region and nuclear localization signal (s). VP1 N-terminus might serve as a lipolytic enzyme to breach the endosomal membrane during entry into host cell. Intracytoplasmic transport involves microtubules and interaction between capsid proteins and host dynein. Exposure of nuclear localization signal probably allows nuclear import of capsids.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	116774
UniProt Accession #	P07299
Molecular Weight	64.89kD
NCBI Official Full Name	Capsid protein VP1
UniProt Protein Name	Capsid protein VP1

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.