

Recombinant AAV-2 VP1 Protein, His tagged

Cat. No. VP1-100A Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant AAV-2 VP1 Protein with His tag was expressed in E. coli.
Species	AAV-2
Source	E.coli
ProteinLength	1-735 aa
Description	<p>Adeno-Associated Viruses (AAV) are small, non-enveloped viruses containing a small, linear single-stranded DNA (ssDNA) genome. Non-enveloped viruses do not have a lipid bilayer surrounding the viral particle and are only composed of a protein capsid and the viral genetic material inside. The AAV genome is ~4.7 kb long and consists of two open reading frames, Rep and Cap, flanked by two 145 bp inverted terminal repeats (ITRs). The Rep region encodes four non-structural replication proteins (Rep78, Rep68, Rep52, and Rep40), which are involved in genome replication and viral packaging. The Cap region encodes three structural capsid proteins or viral proteins (VP1, VP2 and VP3) that form the icosahedral capsid of the virus. The ITR sequences serve as origins of replication and also act as signals for packaging.</p>
AASequence	<p>MGSSHHHHHHSSGLVPRGSHMAADGYLPDWLEDLTLSEGIRQWWKLKPGPPPPKP AERHKDDSRGLVLPGYKYLGPFNGLDKGEPVNEADAAALEHDKAYDRQLDSDGNP YLKYNHADADEFQERLKEDTSFGGNLGRAVFQAKKRVLPLGLVEEPVKTAPGKKRP VEHSPVEPDSSSGTGKAGQQPARKRLNFGQTGDADSVDPQPLGQPPAAPSGLGT</p>

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NTMATGSGAPMADNNEGADGVGNSSGNWHCDSTWMGDRVITTSTRTWALPTYNN
 HLYKQISSQSGASNDNHYFGYSTPWGYFDFNRFHCHFSPRDWQRLINNNWGFRPK
 RLNFKLFNIQVKEVTQNDGTTTIANNLTSTVQVFTDSEYQLPYVLGSAHQGCLPPFP
 ADVFMVPQYGYLTLNNGSQAVGRSSFYCLEYFPSQMLRTGNNFTFSYTFEDVPPFHS
 SYAHSQSLDRLMNPLIDQYLYLSRTNTPSGTTTQSRLQFSQAGASDIRDQSRNWL
 PGPCYRQQRVSKTSADNNNSEYSWTGATKYHLNGRDSLVPNGPAMASHKDDEEK
 FFPQSGVLIFGKQGSEKTNVDIEKVMITDEEEIRTTNPVATEQYGSVSTNLQRGNRQ
 AATADVNTQGVLPGMVWQDRDVYLQGPWIWAKIPHTDGHFHPSPLMGGFGLKHPPP
 QILIKNTPVPANPSTTFSAAKFASFITQYSTGQVSVEIEWELQKENSKRWNPEIQYTS
 NYNKSVNVDFTVDTNGVYSEPRPIGTRYLTRNL

Molecular Mass	84 kDa
Purity	> 85% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	50mM Tris pH8.0, 300mM NaCl, 10% glycerol
Concentration	1 mg/mL

GENE INFORMATION

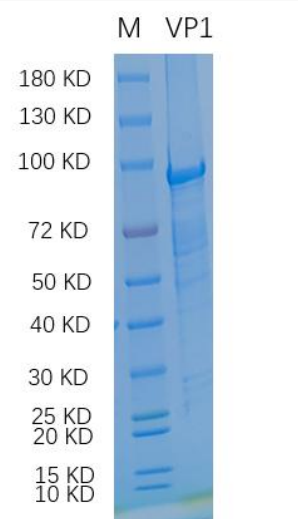
Official Symbol	VP1
Synonyms	VP1; AAV-2 VP1

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SDS-PAGE



Reducing 12% SDS-PAGE analysis profile of purified VP1.

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