



### Synonym

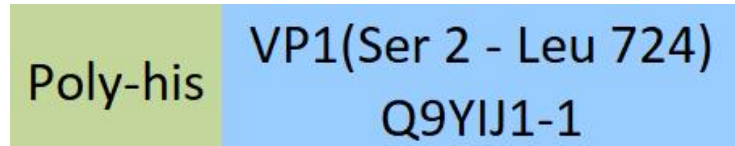
capsid protein

### Source

AAV5 VP1, Recombinant Protein(VP1-A5144) is expressed from E. coli cells. It contains AA Ser 2 - Leu 724 (Accession # [Q9YIJ1-1](#)).

Predicted N-terminus: Met

### Molecular Characterization



This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 82.3 kDa. The protein migrates as 80-95 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

### Endotoxin

Less than 1.0 EU per µg by the LAL method.

### Purity

>95% as determined by SDS-PAGE.

### Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

### Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

### Storage

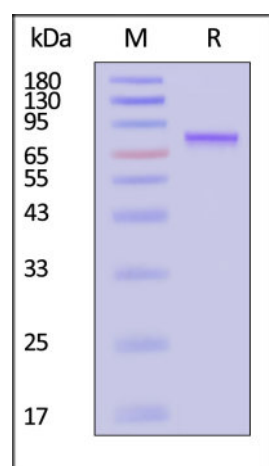
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

### SDS-PAGE



AAV5 VP1, Recombinant Protein on SDS-PAGE under reducing (R) condition.

The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

### Background

Adeno-associated virus is a single-stranded DNA virus and the current scientific consensus is that it does not cause any human disease. It consists of a protein capsid (CAPside) and a 4.7 KB length single stranded DNA genome. The protein capsid consists of three subunits, VP1, VP2, and VP3.

### Clinical and Translational Updates

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