

Product datasheet

AAV9 VP1 + VP2 + VP3, recombinant proteins, set

Short overview

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|----------------------|--|
| Cat. No. | 72009 |
| Quantity | 10 µg each protein |
| Concentration | 100 µg/ml (VP1: 1.19 µM, VP2: 1.45 µM, VP3: 1.61 µM) |

Product description

| | |
|----------------------------|--|
| Formulation | Liquid, 6 M urea in PBS |
| Source | Escherichia coli |
| Molecular Weight | VP1: 83.5 kDa, VP2: 68.6 kDa, VP3: 62.0 kDa (calculated Mw from aa sequence) |
| Purity | > 95% (determined by SDS PAGE) |
| Product description | N-terminal His-tagged (MGSSHHHHHSSGLVPRGSH) recombinant AAV9 capsid proteins VP1 + VP2 + VP3 |
| Purification | Ni-NTA chromatography |
| Storage | -80°C |
| Intended use | Research use only |
| Application | Dot blot, SDS PAGE, WB |

Applications

| | |
|--------------------------|---|
| Dot Blot | 100 ng, depending on primary antibody and detection method |
| SDS PAGE | 1 µg |
| Western Blot (WB) | 5-20 ng, depending on primary antibody and detection method |

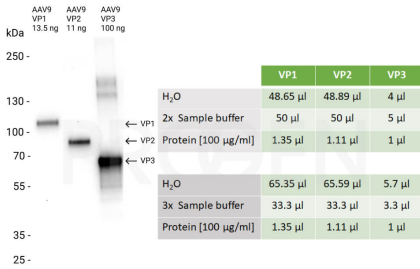
Background

The AAV capsid consists of three capsid proteins, i.e. VP1, VP2 and VP3, which differ in their N-terminus and encapsulate the genomic ssDNA. In native virus particles, the three proteins form subunits with a ratio of 1:1:10 (VP1:VP2:VP3), in a total number of 60 subunits per capsid. This set of recombinant AAV9 VP1, VP2 and VP3 can be used to create a mixture with the precise molar ratio of 1:1:10 to compare the protein composition of the viral capsid in your sample by protein detection methods, e.g. western blot. All three recombinant AAV9 capsid proteins are available as set (Cat. No. 72009) or as individual proteins (Cat. No. 640842, 640843, 640844). Note: please find an example how to prepare western blot samples in the pipetting scheme below. Aliquots of the remaining samples can be stored at -80°C for reuse. Set content: Cat. No. 640842 AAV9 VP1, recombinant protein Cat. No. 640843 AAV9 VP2, recombinant protein Cat. No. 640844 AAV9 VP3, recombinant protein

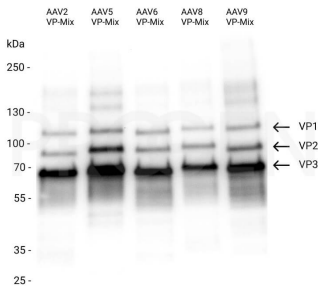
Product images



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Pipetting scheme for western blot analysis using the AAV9 capsid proteins (Cat. No. 640842, 640843, 640844) in separate lanes. To analyze the molar ratio of 1:1:10, it is recommended to load VP1, VP2 and VP3 as described in the pipetting scheme above. Therefore, the indicated volumes of the proteins (concentration 100 µg/ml) should be diluted with the appropriate amount of sample buffer and distilled water. 10 µl of each solution can be separately loaded onto the SDS PAGE and analyzed by Western blot using the B1 antibody (Cat. No. 690058, Cat. No. 61058-488, Cat. No. 61058-647).



Western blot analysis of recombinant AAV2 VP proteins (Cat. No. 72001), recombinant AAV5 VP proteins (Cat. No. 72005), recombinant AAV6 VP proteins (Cat. No. 72006), recombinant AAV8 VP proteins (Cat. No. 72008) and recombinant AAV9 VP proteins (Cat. No. 72009) with B1 antibody (Cat. No. 690058). Western blot analysis was performed on the precise molar ratio of 1:1:10 (13.5 ng VP1:11 ng VP2:100 ng VP3) combined in one lane. The PVDF membrane was blocked with 5% milk in PBST for 1 h at RT. The primary antibody anti-AAV VP1/VP2/VP3, B1 (Cat. No. 690058) was diluted in blocking buffer (antibody concentration 500 ng/ml) and incubated for 1 h at RT. The secondary antibody anti-mouse IgG HRP was also diluted in blocking buffer (antibody concentration 200 ng/ml) and incubated for 1 h at RT. The bands were visualized by chemiluminescent detection using Pierce ECL Western Blotting Substrate.