

Product datasheet

AAV6 VP3, recombinant protein

Short overview

Cat. No.	640838
Quantity	10 µg
Concentration	100 µg/ml (1.61 µM)

Product description

Formulation	Liquid, 6 M urea in PBS
Source	Escherichia coli
Molecular Weight	61.8 kDa (calculated Mw from aa sequence)
Purity	> 95% (determined by SDS PAGE)
Product description	N-terminal His-tagged (MGSSHHHHHSSGLVPRGSH) recombinant AAV6 capsid protein VP3
Purification	Ni-NTA chromatography
Storage	-80°C
Intended use	Research use only
Application	Dot blot, SDS PAGE, WB

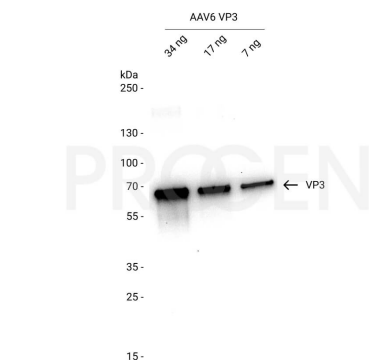
Applications

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

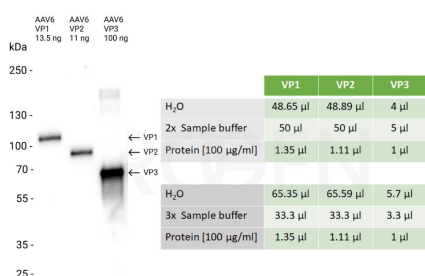
Background

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. The recombinant AAV6 VP3 protein in combination with recombinant AAV6 VP1 (Cat. No. 640836) and recombinant AAV6 VP2 (Cat. No. 640837) 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 AAV6 capsid proteins are available as set (Cat. No. 72006) or as individual proteins (Cat. No. 640836, 640837, 640838). 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.

Product images



Western blot analysis of recombinant AAV6 VP3 (Cat. No. 640838) with B1 antibody (Cat. No. 690058) and ECL detection. Western blot analysis was performed on different amounts of recombinant AAV-VP3 ranging from 7 ng to 34 ng. 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.



Pipetting scheme for western blot analysis using the AAV6 capsid proteins (Cat. No. 640836, 640837, 640838) 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).



AAV6 VP3, recombinant protein