

Product datasheet

AAV2 VP2, recombinant protein

Short overview

Cat. No.	640824
Quantity	10 µg
Concentration	100 µg/ml (1.45 µM)

Product description

Formulation	Liquid, 6 M urea in PBS
Source	Escherichia coli
Molecular Weight	68.9 kDa (calculated Mw from aa sequence)
Purity	> 90% (determined by SDS PAGE)
Product description	N-terminal His-tagged (MGSSHHHHHSSGLVPRGSH) recombinant AAV2 capsid protein VP2
Purification	Ni-NTA chromatography
Storage	-80°C
Intended use	Research use only
Application	Capillary electrophoresis (CE), Dot blot, SDS PAGE, WB

Applications

Capillary electrophoresis (CE)	Assay dependent
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

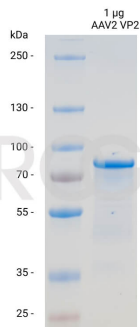
Background

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 AAV2 VP2 protein in combination with recombinant AAV2 VP1 (Cat. No. 640823) and recombinant AAV2 VP3 (Cat. No. 640825) 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 AAV2 capsid proteins are available as a set (Cat. No. 72001) or as individual proteins (Cat. No. 640823, 640824, 640825). 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.

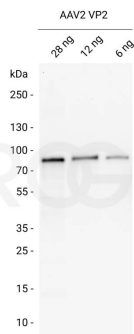
Product images



AAV2 VP2, recombinant protein



SDS PAGE analysis to evaluate the purity of the AAV2 VP2 (Cat. No. 640824). To perform SDS PAGE analysis, 1 ug of AAV2 VP2 was diluted in 10 ul PBS and sample buffer and denatured at 95°C for 10 min. The sample was loaded onto a 4-20% gradient gel (40 min at 200 V). Afterwards, the gel was stained for 1 h at RT with Coomassie solution and destained with water. The purity of AAV2 VP2 is > 90%.



Western blot analysis of recombinant AAV2 VP2 (Cat. No. 640824) with B1 antibody. Western blot analysis was performed on different amounts of recombinant AAV2 VP2 ranging from 6 ng to 28 ng. The PVDF membrane was blocked with 5% dry milk in PBST (PBS + 0.1% Tween 20) for 1 h at RT. The primary antibody anti-AAV VP1/VP2/VP3 mouse monoclonal, B1 (Cat. No. 690058) was diluted in blocking buffer (antibody concentration 0.5 µg/ml) and incubated for 1 h at RT. The secondary antibody goat anti-mouse IgG HRP was also diluted in blocking buffer (antibody concentration 0.2 µg/ml) and incubated for 1 h at RT. The bands were visualized by chemiluminescent detection using Pierce™ ECL Western Blotting Substrate.