

Product datasheet

AAV5 VP2, recombinant protein

Short overview

Cat. No. 640834 **Quantity** 10 μg

Concentration 100 µg/ml (1.45 µM)

Product description

Formulation Liquid, 6 M urea in PBS

Source Escherichia coli

Molecular Weight 67.7 kDa (calculated Mw from aa sequence)

Purity > 90% (determined by SDS PAGE)

Product description N-terminal His-tagged (MGSSHHHHHHHSSGLVPRGSH) recombinant AAV5 capsid protein VP2

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

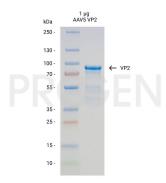
SDS PAGE 1 µg

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 AAV5 VP2 protein in combination with recombinant AAV5 VP1 (Cat. No. 640833) and recombinant AAV5 VP3 (Cat. No. 640835) 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 AAV5 capsid proteins are available as a set (Cat. No. 72005) or as individual proteins (Cat. No. 640833, 640834, 640835).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.

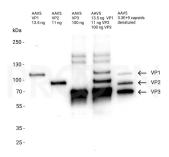
Product images



SDS PAGE analysis to evaluate the purity of the AAV5 VP2 (Cat. No. 640834). To perform SDS PAGE analysis, 1 μ g of protein was diluted in 10 μ l PBS and sample buffer and denatured at 95°C for 5 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 AAV5 VP2 is > 90%.



AAV5 VP2, recombinant protein



Western blot analysis of recombinant AAV5 capsid proteins (Cat. No. 640833, 640834, 640835) and denatured AAV5 capsids with B1 antibody (Cat. No. 690058). Western blot analysis was performed on the precise molar ratio of 1:1:10 (VP1:VP2:VP3) either in separate lanes or combined in one lane and on 3.3E+09 denatured AAV5 capsids. 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.