

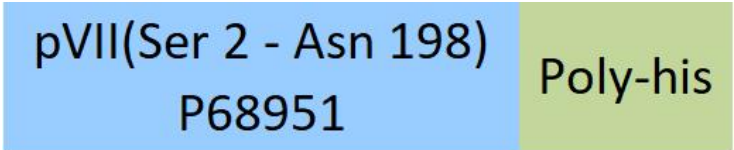
Synonym

Ad 5,Pre-histone-like nucleoprotein,pVII,Histone-like nucleoprotein,Core protein VII

Source

Human Adenovirus protein VII, Tag Free(AND-H5114) is expressed from undefined It contains AA Ser 2 - Asn 198 (Accession # [P68951](#)).
Predicted N-terminus: Met

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus
The protein has a calculated MW of 23.9 kDa. The protein migrates as 30-33 kDa under reducing (R) condition (SDS-PAGE) .

Endotoxin

Less than 0.1 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.5 M Arginine, pH7.3 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.

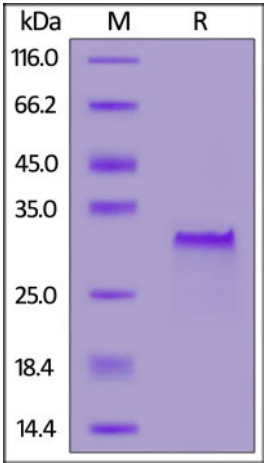
Storage

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



Human Adenovirus protein VII, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

Adenovirus protein VII ELISA

Measured by its binding ability in a functional ELISA. Immobilized Human ACE2, Fc Tag (Cat. No. AC2-H5257) at 5 µg/mL (100 µL/well) can bind Biotinylated SARS-CoV-2 Spike RBD (Y449H, E484K, N501Y), His,Avitag (Cat. No. SPD-C82En) with a linear range of 2-39 ng/mL (Routinely tested).

Background

Adenovirus protein VII (pVII) plays a role in the inhibition of host immune response within the nucleus. Interacts with cellular nucleosomes and immobilizes the host immune danger signal HMGB1 on chromatin. In turn, prevents HMGB1 release out of the cell and thus decreases inflammation. Plays also a role in the wrapping and condensation of the viral DNA. May also promote viral genome import into the nucleus.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.