

Protein A35 from Monkeypox Virus with C-Terminal Histidine Tag, Recombinant from HEK293 Cells

Catalog No. NR-58636

Sino Biological Catalog No. 40886-V08H

For research use only. Not for use in humans.

Contributor and Manufacturer:

Sino Biological, Wayne, Pennsylvania, USA

Product Description:

A recombinant form of protein A35 from monkeypox virus (MPXV) was expressed in human embryonic kidney HEK293 cells and purified by affinity tag and size exclusion chromatography.¹ NR-58636 contains 135 residues of the MPXV A35 protein (GenPept: [URK20584.1](#)) and features a C-terminal poly-histidine tag.¹ The predicted protein sequence is shown in Figure 1. NR-58636 has a theoretical molecular weight of approximately 15 kDa. It migrates as an approximately 27.68, 18.68 or 16.74 kDa band in SDS-PAGE under reducing conditions. Representative SDS-PAGE results are shown in Figure 2.¹

Material Provided:

Each vial contains approximately 50 µg of purified recombinant protein lyophilized from phosphate-buffered saline, pH 7.4 containing 5% trehalose, 5% mannitol and 0.01% Tween-80.

Packaging/Storage:

NR-58636 was packaged aseptically in glass vials. The product is provided at ambient temperature and should be stored under sterile conditions at -20°C to -80°C immediately upon arrival. NR-58636 is stable for twelve months at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage.¹ Reconstituted NR-58636 should be stored at -80°C or colder immediately. Freeze-thaw cycles should be avoided.

Reconstitution:

NR-58636 should be reconstituted with 200 µL sterile deionized water to a stock solution of 0.25 mg/mL.¹ Add water with occasional gentle mixing. Note: Avoid vigorous shaking or vortexing.

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Protein A35 from Monkeypox Virus with C-Terminal Histidine Tag, Recombinant from HEK293 Cells, NR-58636.”

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and

Prevention, and National Institutes of Health. [Biosafety in Microbiological and Biomedical Laboratories \(BMBL\)](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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References:

1. Lu, J., Personal Communication.

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Figure 1: Predicted Protein Sequence

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1  RLNQCMSANK  AAITDSAVAV  AAASSTHRKV  VSSTTQYDHK  ESCNGLYYQG
51  SCYILHSDYK  SFEDAKANCA  AESSTLPNKS  DVLTTWLIDY  VEDTWGSDGN
101 PITKTTSDYQ  DSDVSQEVK  YFCTAHHHHH  HHHHH
    
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MPXV A35 protein – Residues 1 to 124 (represents amino acid residues 58 to 181 of the native MPXV A35)
 Plasmid-derived amino acid – Residue 125
 Poly-histidine tag – Residues 126 to 135

Figure 2: Representative SDS-PAGE

