

SUPPORTING INFECTIOUS DISEASE RESEARCH

## **Product Information Sheet for NR-58636**

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: \(\text{URK20584.1}\)) 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. 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  $\mu$ L sterile deionized water to a stock solution of 0.25 mg/mL. 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. <u>Biosafety in Microbiological and Biomedical Laboratories (BMBL)</u>. 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

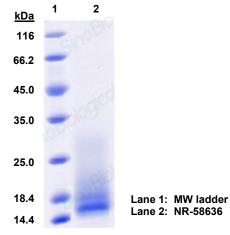
- 1 RLNQCMSANK AAITDSAVAV AAASSTHRKV VSSTTQYDHK ESCNGLYYQG
- 51 SCYILHSDYK SFEDAKANCA AESSTLPNKS DVLTTWLIDY VEDTWGSDGN
- 101 PITKTTSDYQ DSDVSQEVRK YFCTAHHHHH HHHHH

**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 – <u>Residues 126 to 135</u>

Figure 2: Representative SDS-PAGE



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