

Recombinant Monkeypox virus A33R protein (His Tag)

Catalog Number: PDEV100015



Note: Centrifuge before opening to ensure complete recovery of vial contents.

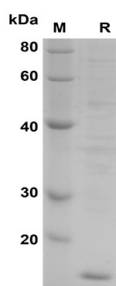
Description

| | |
|---------------------|----------------------------|
| Species | Monkeypox virus |
| Mol_Mass | 15.5 kDa |
| Accession | F1DJJ9 |
| Bio-activity | Not validated for activity |

Properties

| | |
|-----------------------|--|
| Purity | > 90% as determined by reducing SDS-PAGE. |
| Endotoxin | < 10 EU/mg of the protein as determined by the LAL method |
| Storage | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol. |
| Reconstitution | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis. |

Data



SDS-PAGE analysis of Monkeypox virus A33R proteins, 2µg/lane of Recombinant Monkeypox virus A33R proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 16 KD.

Background

Monkeypox Virus (MPXV), the virus that causes monkeypox infection in both humans and animals, is a double-stranded DNA virus that has had a recent global outbreak in 2022. MPXV belongs to the Poxviridae family of viruses. It consists of several key subunits including a surface membrane fusion protein (A29L, ~14 kDa), two separate envelope proteins (A30L ~14 kDa and H3L ~32kDa), an envelope glycoprotein, A35R ~15 kDa), a receptor glycoprotein that mimics IFN-alpha/beta (B16, ~37 kDa), a palmitoylated EEV membrane glycoprotein (C19L, ~35 kDa), a secreted IL-18 binding protein (D6L, ~14 kDa), a cell surface-binding protein (E8L, ~32 kDa), a telomere binding protein (I1L, ~36kDa), and a subunit required for DNA packaging (L1R, 18 kDa).

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