

## Recombinant Monkeypox virus A26L protein (His,SUMO Tag)

Catalog Number: PDEV100016

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

### Description

<b>Species</b>	Monkeypox virus
<b>Source</b>	E.coli-derived Monkeypox virus A26L protein Met1-Glu75, with an N-terminal Sumo & His
<b>Calculated MW</b>	28.1 kDa
<b>Observed MW</b>	32 kDa
<b>Accession</b>	Q3I8M6
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95% as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 10 EU/mg of the protein as determined by the LAL method
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
<b>Reconstitution</b>	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.

### 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 ~32 kDa), 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, ~36 kDa), and a subunit required for DNA packaging (L1R, 18 kDa).