Recombinant Monkeypox virus MPXV(A29L) Protein (His Tag)

Catalog Number: PDEV100017

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

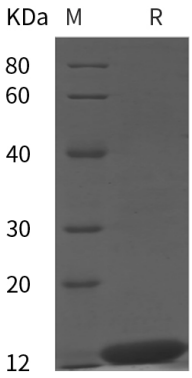
Description

Species	Monkeypox virus
Source	E.coli-derived Monkeypox virus MPXV protein Met1-Glu110, with an N-terminal His
Calculated MW	12.0 kDa
Observed MW	12 kDa
Accession	Q90188
Bio-activity	Not validated for activity

Properties

Purity	> 95% 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 MPXV(A29L) proteins, 2 μg/lane of Recombinant Monkeypox virus MPXV(A29L) proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 12 kDa.

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, ~37kDa), a palmitoylated EEV membrane glycoprotein (C19L, ~35 kDa), a secreted IL-18 binding protein (D6L, ~14kDa), 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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