

# Monkeypox virus (strain Zaire-96-I-16) H3L Protein, His Tag (MALS verified)

Catalog # H3L-M52H1



BIOSYSTEMS  
**Acro**  
Surprise Inside!

## Source

Monkeypox virus (strain Zaire-96-I-16) H3L, His Tag(H3L-M52H1) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Phe 282 (Accession # [Q8V4Z2](#)).

Predicted N-terminus: Met 1

## Molecular Characterization

H3L (Met 1 – Phe 282)  
Q8V4Z2 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 34.6 kDa. The protein migrates as 35-43 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

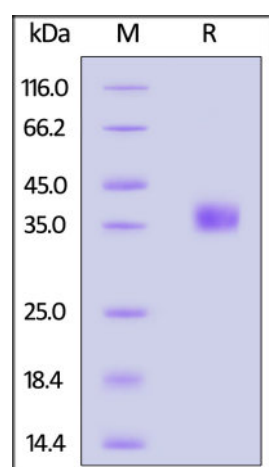
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

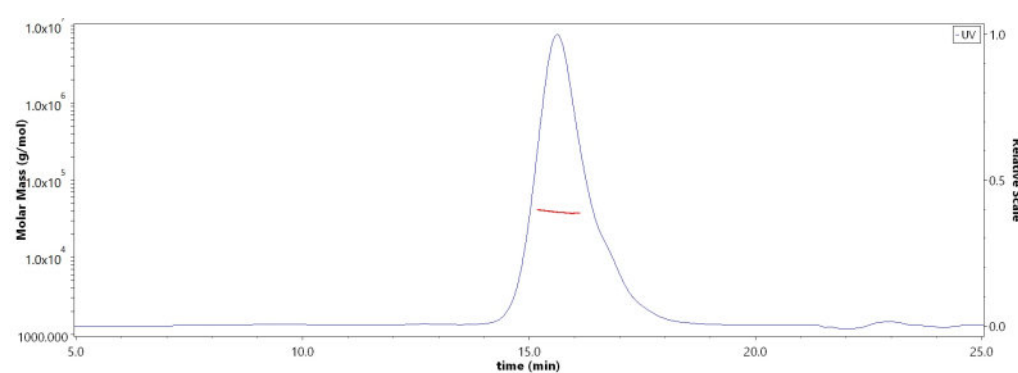
## SDS-PAGE



Monkeypox virus (strain Zaire-96-I-16) H3L, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA

## SEC-MALS



The purity of Monkeypox virus (strain Zaire-96-I-16) H3L, His Tag (Cat. No. H3L-M52H1) is more than 90% and the molecular weight of this protein is around 35-45 kDa verified by SEC-MALS.

[Report](#)

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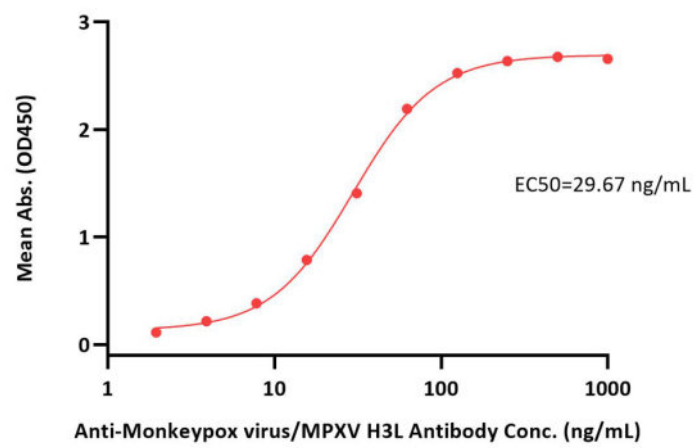
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Monkeypox virus (strain Zaire-96-I-16) H3L, His Tag ELISA  
0.1 µg of Monkeypox virus (strain Zaire-96-I-16) H3L, His Tag per well



Immobilized Monkeypox virus (strain Zaire-96-I-16) H3L, His Tag (Cat. No. H3L-M52H1) at 1 µg/mL (100 µL/well) can bind Anti-Monkeypox virus/MPXV H3L Antibody with a linear range of 4-63 ng/mL (QC tested).

## Background

Monkeypox is a rare zoonosis caused by monkeypox virus, which has become the most serious orthopoxvirus and consists of complex double stranded DNA. The cases are mostly in central and western Africa. The pathogenesis of monkeypox is that the virus invades the body from respiratory mucosa, multiplies in lymphocytes, and incurs into blood producing transient venereal toxemia. after the virus multiplies in cells, the cells can invade the blood and propagate to the skin of the whole body, causing lesions.

## Clinical and Translational Updates

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