

Recombinant Monkeypox virus M1R Protein

Catalog No.: RP03292

Sequence Information

Species **Gene ID**
Monkeypox virus 928968

Swiss Prot **Tags**
Q8V502 C-His

Synonyms

M1R; Monkeypox virus M1R;
MPXV M1R

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
determined by
Tris-Bis PAGE; ≥
95 % as
determined by
HPLC.

Calculated MW **Observed MW**
20.41 kDa 20–40 kDa

Endotoxin

< 1 EU/μg of the protein by LAL
method.

Formulation

Lyophilized from a 0.22 μm filtered
solution of PBS, pH 7.4. Contact us
for customized product form or
formulation.

Reconstitution

Centrifuge the vial before opening.
Reconstitute to a concentration of
0.1–0.5 mg/mL in sterile distilled
water. Avoid vortex or vigorously
pipetting the protein. For long
term storage, it is recommended
to add a carrier protein or stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

Monkeypox virus (MPXV) is double-stranded DNA virus belonging to the genus orthopoxvirus that causes a smallpox-like disease in humans. M1R is homologous to the vaccinia virus L1 protein, a transmembrane protein found on the surface of mature IMV particles. And M1R is the component of the entry fusion complex (EFC), which consists of 11 proteins. During cell infection, this complex mediates entry of the virion core into the host cytoplasm by a two-step mechanism consisting of lipid mixing of the viral and cellular membranes and subsequent pore formation.

Basic Information

Description

Recombinant Monkeypox virus M1R Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly2–Gly183) of Monkeypox virus M1R (Accession #QJQ40223.1) fused with His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

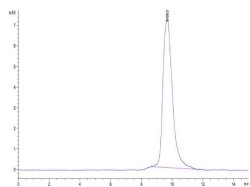
Contact

☎ | 400-999-6126

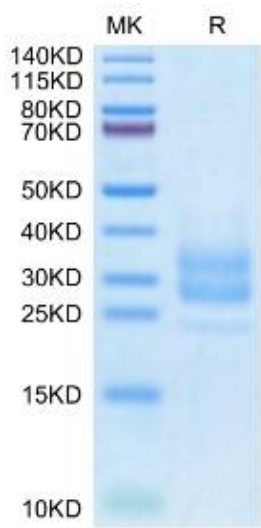
✉ | cn.market@abclonal.com.cn

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Validation Data



The purity of Monkeypox virus M1R is greater than 95% as determined by SEC-HPLC.



Recombinant Monkeypox virus M1R Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.