

Recombinant Monkeypox virus M1R Protein

Catalog No.: RP03292 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Monkeypox virus	928968	Q8V502

Tags
C-His

Synonyms

M1R; Monkeypox virus M1R; MPXV M1R

Product Information

Source	Purification
HEK293 cells	> 95% by Tris-Bis PAGE and HPLC.

Calculated MW	Observed MW
20.41 kDa	20-40 kDa

Endotoxin

< 1.0 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.

Contact

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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.

Bio-Activity

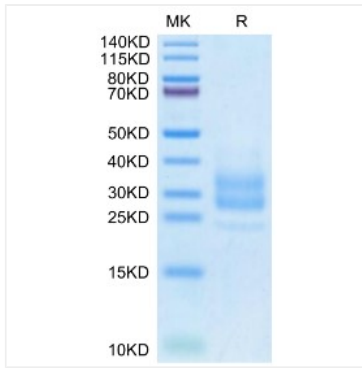
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

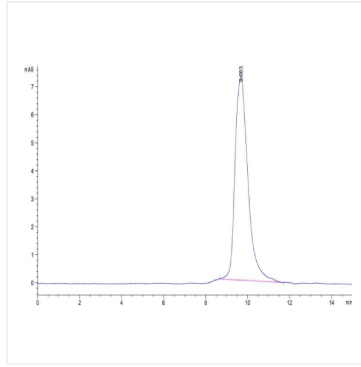
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Monkeypox virus M1R Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 20-40 kDa.



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