

A30 Protein, Monkeypox virus, Recombinant (His)

General Information

Synonyms:	Envelope protein A28 homolog;A30;A30L;Protein A30
Protein Construction:	Gln22-Leu146
Species:	Monkeypox virus
Expression Host:	HEK293 Cells
Accession:	Q8V4U9
Molecular Weight:	15.24 kDa (predicted). Due to glycosylation, the protein migrates to 30-55 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Monkeypox virus (MPXV) is double-stranded DNA virus belonging to the genus orthopoxvirus that causes a smallpox-like disease in humans. A30L is an envelope protein required for the fusion of virus and host cell to form syncytia, and is also considered to be an important target in MPXV research.

Reference

Alakunle E, et al. Monkeypox Virus in Nigeria: Infection Biology, Epidemiology, and Evolution. *Viruses*. 2020 Nov 5; 12(11):1257. doi: 10.3390/v12111257. PMID: 33167496; PMCID: PMC7694534.

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