

Recombinant Monkeypox Virus Envelope Protein H3L

Source

- **Species** Monkeypox Virus (MPXV)
- **Gene Symbols** H3L
- **Accession Number** Q8V4Z2
- **Expressed Region** Met1-Pro278
- **Synonyms** Envelope protein H3, IMV heparan-binding surface membrane protein

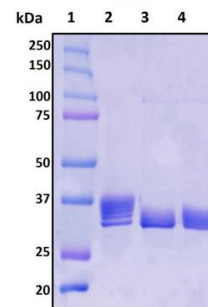
Preparation

- **Expression System** Human embryonic kidney 293 (HEK293) cells
- **Tag** C-terminal his-tag
- **Purification** His-tag affinity purification by immobilized metal ion affinity chromatography (IMAC)
- **Purity** >95%, determined by SDS-PAGE under reducing conditions and visualized by Coomassie blue staining
- **Endotoxin** <0.5 EU per µg of the protein as determined by the LAL method
- **Molecular Weight** Recombinant protein product has a calculated molecular mass of ~32 kDa. Due to the abundant glycosylation, it migrates as approximately ~32-37 kDa protein bands in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions. See SDS-PAGE image below.

Protein Specifications

- **Format** Lyophilized powder
- **Formulation** Lyophilized from a 0.2 um filtered solution in PBS (pH 7.4) with 1% mannitol and 5% trehalose
- **Concentration** Determined by BCA protein assay
- **SDS-PAGE Image**

Figure 1. Deglycosylation analysis of purified recombinant proteins. The same amount of purified proteins were untreated (Lane 2) or treated with protein deglycosylation enzymes under native (Lane 3) or reducing (Lane 4) conditions. Deglycosylation treatment resulted in a mobility shift of the protein to produce one reduced band at the expected size, thus indicating that the untreated recombinant protein (Lane 2) was glycosylated. **Lane 1**, protein standard ladder (kDa). **Lane 2**, untreated protein. **Lane 3**, treated protein with deglycosylation enzymes under native conditions. **Lane 4**, treated protein with deglycosylation enzymes under denature conditions.



Reconstitution

Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to reconstitute at 0.5 - 1.0 mg/mL with sterile deionized water.

Shipping

The product is shipped with ice packs.

Storage/Stability

- Upon arrival, the protein may be stored for 2 weeks at 4°C. For long term storage, it is recommended to store at -20°C or -80°C in appropriate aliquots.
- Avoid repeated freeze-thaw cycles.

This product is furnished for **LABORATORY RESEARCH USE ONLY**.
Not for diagnostic or therapeutic use.