

Recombinant Monkeypox Virus Envelope Protein H3L

Source

Species	Monkeypox Virus (MPXV)
Accession Number	Q8V4Z2
Gene Symbol	H3L
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%
Purity Determined By	SDS-PAGE under reducing conditions and visualized by Coomassie blue staining
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
Endotoxin Level	0.5 EU per µg of the protein as determined by the LAL method
Recommended Applications	Functional Assay, Protein-protein Interaction, Post-translational Modifications, ELISA, EIA, Western Blotting, Dot Blotting, Immunoprecipitation, Protein Array, etc.
Reconstitution	Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to reconstitute at 0.5 - 1 mg/mL with sterile deionized water.
SDS-PAGE Image	SDS-PAGE band or type unknown

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.

Shipping

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.