

Recombinant Monkeypox Virus IMV Surface Membrane 14-kDa Fusion Protein, A29L

Source

- **Species** Monkeypox Virus (MPXV)
- **Gene Symbols** A29L
- **Accession Number** Q90188
- **Expressed Region** Met1-Glu110

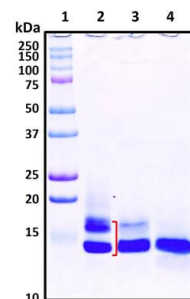
Preparation

- **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 ~13 kDa. Due to the abundant glycosylation, it migrates as two major bands: approximately ~13 kDa non-glycosylated form and ~16 kDa glycosylated form in SDS-PAGE under DTT and beta-mercaptoethanol reducing conditions. See SDS-PAGE image below.

Protein Specifications

- **Format** Liquid
- **Formulation** Filtered solution in PBS with 1% mannitol and 5% trehalose
- **Concentration** Lot specific (see the label on the vial), determined by Bio-Rad protein assay reagent
- **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.



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.