
Recombinant Mpox Virus Cell Surface-binding Protein, E8L

Catalog Number: 230-30232

Data Sheet / Certificate of Analysis (CoA)

Last Revised: 11/27/2024

Source

Species	Mpox Virus (MPXV)
Accession Number	Q8V4Y0
Gene Symbols	E8L
Synonyms	Cell surface-binding protein, carbonic anhydrase homolog, E8L
Expressed Region	Met1-Thr275

Preparation

Expression System	HEK293 cells
Tag	C-terminal his-tag
Purity	>95%
Molecular Weight	Recombinant protein product has a calculated molecular mass of ~32 kDa. Due to the abundant glycosylation, it migrates as approximately ~40 kDa protein bands in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions. See deglycosylation analysis image below.
Endotoxin Level	<0.5 EU per ug of the protein as determined by the LAL method

Specifications

Format	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS (pH 7.4) with 1% mannitol and 5% trehalose
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

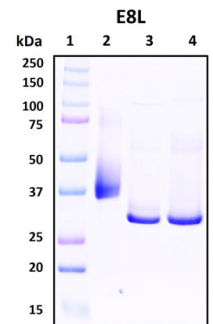
Figure 1. Deglycosylation analysis of purified recombinant proteins. The same amount of purified proteins were untreated (Lane 2) or treated with protein deglycosylation enzymes under native (Lane 3) or reducing (Lane 4) conditions. Deglycosylation treatment resulted in a mobility shift of the protein 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. Upon arrival, immediately store it at the temperature recommended below.

Storage/Stability

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- Upon arrival, the lyophilized protein may be stored for 2 weeks at 4°C.
- For long term storage, it is recommended to store desiccated below -20°C in a manual defrost freezer.
- Generally, the shelf life is up to 12 months from date of receipt at -20°C or -80°C under sterile conditions.
- Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at -20°C. For long term storage, it is recommended to make appropriate aliquots at -20°C or -80°C.