

Recombinant Human Herpesvirus 1 (HSV-1) Glycoprotein D

Source

- **Species** Human herpesvirus 1 (HSV-1)
- **Gene Symbols**
- **Accession Number** Q991M3
- **Expressed Region** Lys26-Asn339
- **Synonyms**

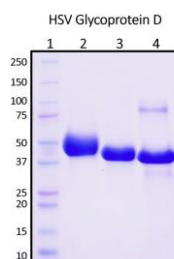
Preparation

- **Expression System** Human embryonic kidney 293 (HEK293) cells
- **Tag** C-terminal histidine tag
- **Purification** His-tag affinity purification by immobilized metal ion affinity chromatography (IMAC)
- **Purity** >95%
- **Endotoxin Level** <0.5 EU per µg of the protein as determined by the LAL method
- **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 35 kDa. Due to the abundant glycosylation, it migrates as approximately 45 kDa major protein band in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions. See deglycosylation analysis image below.

Protein Specifications

- **Format** Lyophilized powder
- **Formulation** Lyophilized from a 0.2 µm filtered solution in PBS (pH 7.4)
- **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.