

glycoprotein B/gB Protein, HHV-7 (Cell-Free, His)

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|-------------------|-------------------------|
| Cat. No.: | HY-P702290 |
| Synonyms: | Envelope glycoprotein B |
| Species: | Virus |
| Source: | E. coli Cell-free |
| Accession: | P52352 (D23-L822) |
| Gene ID: | / |
| Molecular Weight: | 93.5 kDa |

PROPERTIES

AA Sequence

| | | | |
|-------------|--------------|------------|-------------|
| DFVMTGHNQH | LPFRICSIAT | GTDLVRFDRE | VSCASYGSNI |
| KTTEGILIIY | KTKIEAHTFS | VRTFKKELTF | QTTYRDVGTV |
| YFLDRTV TTL | PMPIEEVH MV | NTEARCLSSI | SVKRSEEE EY |
| VAYHKDEYVN | KTLDL I PLNF | KSDTVRRYIT | TKEPFLRNGP |
| LWFYSTSTSI | NCIVTDCIAK | TKYPDFDFAL | STGETVEGSP |
| FYNGINSKTF | NEPTEKILFR | NNYTMLKTFD | DGSKGNFVTL |
| TKMAFLEKGN | TIFSWEVQNE | ESSICLLKHW | MTIPHALRAE |
| NANSFHFI AQ | ELTASFVTGK | SNYTLSDSKY | NCINSNYTSI |
| LDEIYQTQYN | NSHDKNGSYE | IFKTEGDLIL | IWQPLIQRKL |
| TVLENFSNAS | RKRRKRELET | NKDIVYVQLQ | YLYDTLKDYI |
| NTALGKLA EA | WCLNQKRTIT | VLHELKISP | SGIISAVY GK |
| PMSAKLIGDV | LAVSKCIEVN | QTSVQLHKSM | RLTKDSSYDA |
| LRCYSRPLLT | YSFANSSKET | YLGQLGLDNE | ILLGNHRTEE |
| CEQSNTKIFL | SGKFAHIFKD | YTYVNSSLIT | EIEALDAFVD |
| LNIDPLENAD | FTLLELYTKD | ELSKANVFDL | ETILREYNSY |
| KSALHHIETK | IATVTPTYIG | GIDTFFKGLG | ALGLGLGAVL |
| GVTAGALGDV | VNGVFSFLKN | PFGGALTILL | TLGVIGLVIF |
| LFLRHKRLAQ | TPIDILFPYT | SKSTNSVLQA | TQSVQAQVKE |
| PLDSSPPYLK | TNKDTEPQGD | DITHTNEYSQ | VEALKMLKAI |
| KLLDESYKKA | EIAEAKKSQR | PSLLERIQYR | GYQKLSTEEL |

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.22 μ m filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Endotoxin Level <1 EU/ μ g, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH₂O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION**Background**

The glycoprotein B (gB) protein is an envelope glycoprotein that forms spikes on the surface of the viral envelope. It is essential for the initial attachment to heparan sulfate moieties found on the host cell surface proteoglycans. Furthermore, gB is involved in the fusion of viral and cellular membranes, facilitating the entry of the virus into the host cell. This fusion process is mediated by a fusion machinery consisting of at least gB and the heterodimer gH/gL. Additionally, gB may play a role in the fusion between the virion envelope and the outer nuclear membrane during virion egress. It exists as a homotrimer connected by disulfide bonds and is capable of binding to heparan sulfate proteoglycans. Moreover, gB interacts with the gH/gL heterodimer.

Caution: Product has not been fully validated for medical applications. For research use only.

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