

Recombinant HSV-1 glycoprotein G Antigen, His tagged

Cat. No. gG1-073H **Lot. No.** (See product label)

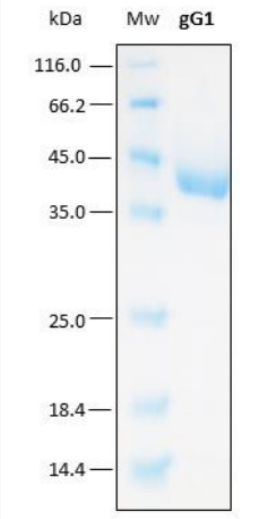
SPECIFICATION

Product Overview	The recombinant gG-1 glycoprotein has been prepared by expressing the mature protein from the US4 gene of HSV-1.
Species	HSV1
Source	P.pastoris
Description	gG1 is the recombinant mature glycoprotein G for herpes simplex virus type 1 (HSV-1). The glycoprotein G, an envelope protein of unknown function has been suggested as a prototype antigen for type-specific HSV-1 serology. Several studies have demonstrated that IgG test using immunoassay or immunoblot based on the specific glycoprotein G is the most accurate method for discrimination HSV-1 and HSV-2.
Tag	C-His
Molecular Mass	Determined by SDS-PAGE, the protein band is between markers of 35-45 kDa due to the glycosylation pattern, while relative molecular mass calculated from amino acid sequence and without glycosylation is 19760.72 Da.
Purity	> 95% by observation on SDS-PAGE electrophoresis
Applications	WB, DB, IE, DE, CLIA, LF
Storage	Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and stored at -20 to -80 centigrade. In order to defrost the protein, maintain the aliquot at

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	25 centigrade without shaking to avoid aggregation.
Storage Buffer	20 mM phosphate buffer pH 7, 0.15 M NaCl and 0.1% polyoxyethylene (10) tridecyl ether
Concentration	2.95 mg/mL
Shipping	Protein is shipped with dry ice.
Reference	1. Frame, M.C., Marsden, H.S., and McGeoch, D.J. Novel herpes simplex virus type 1 glycoproteins identified by a synthetic oligopeptide from the predicted product of gene US4. 1986. J. gen. Virol. 67:745-751. 2. Gill SC, von Hippel PH. Calculation of protein extinction coefficients from amino acid sequence data. Anal Biochem. 1989 Nov 1;182(2):319-26
Purity	 SDS-PAGE analysis (15%) of 2 µL of recombinant gG1. Purity is > 95% as determined by gel electrophoresis. The emerald green stain indicates glycosylation

which is responsible for the increase in Mw of the protein.

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