Data Sheet (Cat.No.TMPY-06900)

TargetMol

HSV 2 (strain HG52) Glycoprotein E/gE Protein (His)

General Information

Protein Construction:	A DNA sequence encoding the HSV 2 ((strain HG52) (HSV2)) gE/glycoprotein E (translated amino acids of P89475) (Met1-Arg414) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Ala 21
Species:	HSV2
Expression Host:	Baculovirus Insect Cells
Accession:	P89475
Molecular Weight:	44.53 kDa (predicted); 49.31 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	≥ 90 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris, 250 mM Nacl, 10% glycerol, pH 8.0.Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Herpes simplex virus type 2 (HSV-2) is the predominant cause of genital ulcer disease in human. Glycoprotein E (gE) and glycoprotein I (gI) are expressed as a heterodimer on the surface of Herpes simplex virus (HSV). Glycoprotein E binds Fc domain of immunoglobulin G (IgG) and inhibits activities mediated by the IgG Fc domain, contributing to immune evasion by HSV.

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