Data Sheet (Cat.No.TMPH-03683)

TargetMol

Varicella-zoster virus (strain Oka vaccine) glycoprotein H/gH Protein (His)

General Information

Synonyms:	Envelope glycoprotein H;gH
Protein Construction:	243-611 aa
Species:	HHV-3
Expression Host:	E. coli
Accession:	Q775J3
Molecular Weight:	47 kDa (predicted)
AA Sequence:	LTSDSGRVEVNIGVGFMSSLISLSSGLPIELIVVPHTVKLNAVTSDTTWFQLNPPGPDPGPSYRVYLLGRGLDM NFSKHATVDICAYPEESLDYRYHLSMAHTEALRMTTKADQHDINEESYYHIAARIATSIFALSEMGRTTEYFLLD EIVDVQYQLKFLNYILMRIGAGAHPNTISGTSDLIFADPSQLHDELSLLFGQVKPANVDYFISYDEARDQLKTA YALSRGQDHVNALSLARRVIMSIYKGLLVKQNLNATERQALFFASMILLNFREGLENSSRVLDGRTTLLLMTS MCTAAHATQAALNIQEGLAYLNPSKHMFTIPNVYSPCMGSLRTDLTEEIHVMNLLSAIPTRPGLNEVLHTQLD

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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

The heterodimer glycoprotein H-glycoprotein L is required for the fusion of viral and plasma membranes leading to virus entry into the host cell. Following initial binding to host receptor, membrane fusion is mediated by the fusion machinery composed of gB and the heterodimer gH/gL. May also be involved in the fusion between the virion envelope and the outer nuclear membrane during virion morphogenesis.

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