Data Sheet (Cat.No.TMPH-01448)

TargetMol

Human herpesvirus 2 (HHV-2) (strain HG52) Envelope glycoprotein E (His)

General Information

Synonyms: gE;gE-2;Envelope glycoprotein E

Protein Construction: 21-545 aa

Species: HHV-2

Expression Host: E. coli

Accession: P89475

Molecular Weight: 60.1 kDa (predicted)

AA Sequence: AAPRTSWKRVTSGEDVVLLPAPAERTRAHKLLWAAEPLDACGPLRPSWVALWPPRRVLETVVDAACMRAPE PLAIAYSPPFPAGDEGLYSELAWRDRVAVVNESLVIYGALETDSGLYTLSVVGLSDEARQVASVVLVVEPAPVP TPTPDDYDEEDDAGVTNARRSAFPPQPPPRRPPVAPPTHPRVIPEVSHVRGVTVHMETLEAILFAPGETFGTN VSIHAIAHDDGPYAMDVVWMRFDVPSSCADMRIYEACLYHPQLPECLSPADAPCAVSSWAYRLAVRSYAGC SRTTPPPRCFAEARMEPVPGLAWLASTVNLEFQHASPQHAGLYLCVVYVDDHIHAWGHMTISTAAQYRNAV VEQHLPQRQPEPVEPTRPHVRAPHPAPSARGPLRLGAVLGAALLLAALGLSAWACMTCWRRRSWRAVKSR ASATGPTYIRVADSELYADWSSDSEGERDGSLWQDPPERPDSPSTNGSGFEILSPTAPSVYPHSEGRKSRRPL TTFGSGSPGRRHSQASYPSVLW

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: > 90% 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

In epithelial cells, the heterodimer gE/gI is required for the cell-to-cell spread of the virus, by sorting nascent virions to cell junctions. Once the virus reaches the cell junctions, virus particles can spread to adjacent cells extremely rapidly through interactions with cellular receptors that accumulate at these junctions. Implicated in basolateral spread in polarized cells. In neuronal cells, gE/gI is essential for the anterograde spread of the infection throughout the host nervous system. Together with US9, the heterodimer gE/gI is involved in the sorting and transport of viral structural components toward axon tips.; The heterodimer gE/gI serves as a receptor for the Fc part of host IgG. Dissociation of gE/gI from IgG occurs at acidic pH. May thus be involved in anti-HSV antibodies bipolar bridging, followed by intracellular endocytosis and degradation, thereby interfering with host IgG-mediated immune responses.

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