Data Sheet (Cat.No.TMPH-01446)

TargetMol

Human herpesvirus 2 (HHV-2) (strain HG52) Envelope glycoprotein B (His & SUMO)

General Information

Synonyms: gB;Envelope glycoprotein B

Protein Construction: 23-279 aa

Species: HHV-2

Expression Host: E. coli

Accession: P08666

Molecular Weight: 44.4 kDa (predicted)

AA Sequence: APAAPAAPRASGGVAATVAANGGPASRPPPVPSPATTKARKRKTKKPPKRPEATPPPDANATVAAGHATLR AHLREIKVENADAQFYVCPPPTGATVVQFEQPRRCPTRPEGQNYTEGIAVVFKENIAPYKFKATMYYKDVTVS QVWFGHRYSQFMGIFEDRAPVPFEEVIDKINTKGVCRSTAKYVRNNMETTAFHRDDHETDMELKPAKVATRT SRGWHTTDLKYNPSRVEAFHRYGTTVNCIVEEVDARSVYPY

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: Tris-based buffer, 50% glycerol

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:

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

Envelope glycoprotein that forms spikes at the surface of virion envelope. Essential for the initial attachment to heparan sulfate moieties of the host cell surface proteoglycans. Involved in fusion of viral and cellular membranes leading to virus entry into the host cell. Following initial binding to its host receptors, membrane fusion is mediated by the fusion machinery composed at least of gB and the heterodimer gH/gL. May be involved in the

fusion between the virion envelope and the outer nuclear membrane during virion egress.

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