

# Recombinant Ebola Virus (subtype Bundibugyo, strain Uganda 2007) GP Protein, His-tagged

**Cat. No.** GP-635E    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b> | Recombinant Ebolavirus (subtype Bundibugyo, strain Uganda 2007) Envelope Glycoprotein 1 (GP1), Ile 33-Gln 304 (Accession # AC128624) was produced in human 293 cells (HEK293)                                                                                                                                                     |
| <b>Species</b>          | EBOV                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                            |
| <b>Protein Length</b>   | 33-304 a.a.                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | Ebola virus envelope glycoprotein is initially produced as a precursor known as pre-GP, which is cleaved by furin into two subunits, GP1 and GP2, which remain associated through a disulfide linkage between Cys53 of GP1 and Cys609 of GP2. This heterodimer assembles into a 450-kDa trimer at the surface of nascent virions. |
| <b>Purity</b>           | >90% pure by SDS-PAGE                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>          | Store lyophilized product at 4 centigrade for short term, or frozen at -20 centigrade to -80 centigrade for long term.                                                                                                                                                                                                            |
| <b>Reconstitution</b>   | It is recommended to reconstitute the protein by adding 250ul sterile water to a stock solution of 200µg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. We recommend the addition of carrier protein (0.1% (w/v) BSA) for further dilution and long term                                  |

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storage.

## GENE INFORMATION

|                 |                                                                                                          |
|-----------------|----------------------------------------------------------------------------------------------------------|
| Gene Name       | GP spike glycoprotein [ Bundibugyo virus ]                                                               |
| Official Symbol | GP                                                                                                       |
| Synonyms        | GP; spike glycoprotein; small secreted glycoprotein; second secreted glycoprotein; envelope glycoprotein |
| Gene ID         | 9487265                                                                                                  |
| mRNA Refseq     | FJ217161.1                                                                                               |
| Protein Refseq  | ACI28624.1                                                                                               |
| UniProt ID      | B8XCNO                                                                                                   |

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