

# Recombinant SARS Coronavirus Spike Glycoprotein Mosaic (S2) protein

**Cat. No.** Spike-204V    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Recombinant SARS Coronavirus Spike Glycoprotein Mosaic (S2) protein was expressed in E.coli. Mosaic protein contains the middle section of the Spike protein 408-470, 540-573 amino acids immunodominant regions.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | SARS-CoV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 408-470;540-573 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | Spike protein S2: Mediates fusion of the virion and cellular membranes by acting as a class I viral fusion protein. Under the current model, the protein has at least three conformational states: pre-fusion native state, pre-hairpin intermediate state, and post-fusion hairpin state. During viral and target cell membrane fusion, the coiled coil regions (heptad repeats) assume a trimer-of-hairpins structure, positioning the fusion peptide in close proximity to the C-terminal region of the ectodomain. The formation of this structure appears to drive apposition and subsequent fusion of viral and target cell membranes. |
| <b>Form</b>             | Liquid. 25mM Tris-HCl, 0.4% sarcosyl, 0.25% Triton X-100 and 50% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | 38 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | >95% as determined by 10% PAGE (coomassie staining).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|-------------------------|----------------------------------------------|
| <b>Applications</b>     | ELISA, Western blot.                         |
| <b>Storage</b>          | Upon arrival, store at below -18 centigrade. |
| <b>Shipping</b>         | Dry Ice.                                     |
| <b>Warning</b>          | For Research Use Only.                       |
| <b>GENE INFORMATION</b> |                                              |
| <b>Synonyms</b>         | sars2; E2; sars3a                            |

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