

# Coronavirus OC43 Spike glycoprotein (S) Recombinant Protein | S recombinant protein

Recombinant Human coronavirus OC43 Spike glycoprotein (S), partial

|                               |                                                                 |
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| CATALOG #<br><b>AAA115887</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
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## PRODUCT SYNONYMS

Coronavirus OC43 Spike glycoprotein (S); Recombinant Human coronavirus OC43 Spike glycoprotein (S); partial; E2; Peplomer protein; S recombinant protein

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                              |
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| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                                                                                                                                                             |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                    |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                                                                                                                                                             |
| Sequence Positions      | 318-624aa; Partial                                                                                                                                                                                                                                                                                                                                           |
| Sequence                | TVQPIADVYR RKPNNPNCNI EAWLNDKSVP SPLNWERKTF SNCNFMSSL MSFIQADSFT CNNIDAAKIY<br>GMCFSITID KFAIPNGRKV DLQLGNLGYL QSFNYRIDTT ATSCQLYYNL PAANVSVSFRF NPSTWNKRFG<br>FIEDSVFKPR PAGVLTNHDV VYAQHCFKAP KNFCPCKLNG SCVSGSGPKN NGIGTCPAGT NYLTCDNLCT<br>PDITFTGTY KCPQTKSLVG IGEHCSGLAV KSDYCGGNSC TCRPQAFGLW SADSCLQGDK CNIFANFILH<br>DVNSGLTCST DLQKANTDII LGVVCVNY |
| Preparation and Storage | Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.                                                                                                                                                                                                                                                                       |

## ADDITIONAL INFORMATION

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| Related Product Information for S recombinant protein | S1 attaches the virion to the cell membrane by interacting with sialic acid-containing cell receptors, initiating the infection. S2 is a class I viral fusion protein. Under the current model, the protein has at least 3 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. |
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## NCBI AND UNIPROT INFORMATION

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|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                 | <a href="#">38018026</a>                                                                                                                                                     |
| NCBI GeneID               | <a href="#">2648208</a>                                                                                                                                                      |
| NCBI Accession #          | <a href="#">NP_937950.1</a>                                                                                                                                                  |
| NCBI GenBank Nucleotide # | <a href="#">NC_005147.1</a>                                                                                                                                                  |
| UniProt Accession #       | <a href="#">P36334</a> ; <a href="#">Q66199</a> ; <a href="#">Q66290</a> ; <a href="#">Q66291</a> ; <a href="#">Q696Q6</a> ; <a href="#">Q6TNF9</a> ; <a href="#">Q86623</a> |
| Molecular Weight          | 39.6 kDa                                                                                                                                                                     |
| NCBI Official Full Name   | S protein                                                                                                                                                                    |
| NCBI Official Symbol      | S                                                                                                                                                                            |
| NCBI Protein Information  | spike surface glycoprotein                                                                                                                                                   |
| UniProt Protein Name      | Spike glycoprotein                                                                                                                                                           |
| UniProt Gene Name         | <b>S</b>                                                                                                                                                                     |

|                            |                |
|----------------------------|----------------|
| UniProt Synonym Gene Names | S glycoprotein |
| UniProt Entry Name         | SPIKE_CVHOC    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/s-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/115887>