

Catalog Number: 230-30163

Recombinant SARS-CoV-2 S2 Subunit Protein, Full Length

<u>Source</u>

- Species SARS-CoV-2
- Accession Number QHD43416
- Expressed Region Met697 Pro1213
- Synonyms Spike protein, S Protein, S2 Subunit.

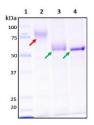
Preparation

- **Expression System** Human embryonic kidney 293 (HEK293) cells
- Tag C-terminal his-tag
- Purification
 His-tag affinity purification by immobilized metal ion affinity chromatography (IMAC)
- **Purity** >90%
- Purity determined By SDS-PAGE under reducing conditions and visualized by Coomassie blue staining
 - Molecular WeightRecombinant protein product has a calculated molecular mass of ~60 kDa. Due to the abundant
glycosylation, it migrates as approximately ~80 kDa protein bands in SDS-PAGE under DTT, beta-
mercaptoethanol reducing conditions. See deglycosylation analysis image below.

Protein Specifications

- Format Liquid
- Formulation Supplied as a 0.2 µm filtered solution in PBS (pH 7.4)
- **Concentration** Lot specific (see the label on the vial), determined by BCA protein assay.
- SDS-PAGE Image Deglycosylation of purified recombinant proteins. Purified proteins were untreated (Lane 2) or

treated with Protein Deglycosylation Kit under native (Lane 3) or reducing (Lane 4) conditions. Deglycosylation treatment resulted in a mobility shift of the protein to produce one major band at the expected size (~60 kDa), thus indicating that the untreated recombinant protein (Lane 2, ~80 kDa) was glycosylated. Lane 1: Protein standard ladder (kDa). Lane 2: Untreated protein (~80 kDa, *red arrow*) under reducing conditions. Lane 3: Partially cleaved protein (~60 kDa, *green arrow*) with deglycosylation enzymes under native conditions. Lane 4: Fully cleaved protein (~60 kDa, *green arrow*) with deglycosylation such a standard band arrow) with deglycosylation enzymes under reducing conditions.



Shipping

The product is shipped with ice packs.

Storage/Stability

Upon arrival, the protein may be stored for 2 weeks at 4 °C. For long term storage, it is recommended to store at -20 °C or -80 °C in appropriate aliquots. Avoid repeated freeze-thaw cycles.

References

- F Wu, et al. A new coronavirus associated with human respiratory disease in China. Nature. 579, 265–269 (2020).
- N Dong, et al. Genomic and protein structure modelling analysis depicts the origin and infectivity of 2019-nCoV, a new coronavirus which caused a pneumonia outbreak in Wuhan, China. **bioRxiv** (2020).
- M Hoffmann, et al. SARS-CoV-2 Cell Entry Depends on ACE2 and TMPRSS2 and Is Blocked by a Clinically Proven Protease Inhibitor. Cell. 181, 1–10 (2020).
- W Li et al. Angiotensin-converting enzyme 2 is a functional receptor for the SARS coronavirus. **Nature**. 426, 450–454 (2003).

This product is furnished for LABORATORY RESEARCH USE ONLY. Not for diagnostic or therapeutic use.

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