

# Active Recombinant SARS-CoV S1 Subunit Protein, His-tagged

Cat. No. S-05S Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant SARS-CoV spike S1 subunit (14-667 aa) fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
<b>Species</b>	SARS-CoV
<b>Source</b>	HEK293
<b>ProteinLength</b>	660
<b>Description</b>	attaches the virion to the cell membrane by interacting with host receptor, initiating the infection. Binding to human ACE2 and CLEC4M/DC-SIGNR receptors and internalization of the virus into the endosomes of the host cell induces conformational changes in the S glycoprotein. Proteolysis by cathepsin CTSL may unmask the fusion peptide of S2 and activate membranes fusion within endosomes.
<b>Form</b>	Liquid
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA with Human ACE-2.
<b>Molecular Mass</b>	73.7kDa
<b>AA Sequence</b>	SDLDRCTTFDDVQAPNYTQHTSSMRGVYYPDEIFRSDTLYLTQDLFLPFYSNVTGFH TINHTFGNPVVPFKDGIYFAATEKSNVVRGWVFGSTMNNKSQSVIIINNSTNVVIRACN FELCDNPFFAVSKPMGTQHTMIFDNAFNCTFEYISDAFSLDVSEKSGNFKHLREFV

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FKNKDGFLYVYKGYQPIDVVRDLPSGFNTLKPIFKLPLGINITNFRAILTAFSPAQDIW  
 GTSAAAYFVGYLKPTTFMLKYDENGITITDAVDCSQNPLAELKCSVKSFIDKGIYQTS  
 NFRVVPSGDVVRFPNITNLCPFGEVFNATKFPSVYAWERKKISNCVADYSVLYNSTF  
 FSTFKCYGVSATKLNLDLCSNVYADSFVVKGDDVRQIAPGQTGVIADYNYKLPDDFM  
 GCVLAWNTRNIDATSTGNVNYKYRYLRHGKLRPFERDISNVPFSPDGKPCPPALN  
 CYWPLNDYGFYTTTGIGYQPYRVVLSFELLNAPATVCGPKLSTDLIKNQCVNFNFN  
 GLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDISPCAFGGVSVITPG  
 TNASSEVAVLYQDVNCTDVSTAIHADQLTPAWRIYSTGNNVFQTQAGCLIGAEHVDT  
 SYECDIPIGAGICASYHTVSLLR

**Endotoxin** < 1 EU/μg of protein (determined by LAL method)

**Purity** > 90% by SDS-PAGE

**Applications** SDS-PAGE, Bioactivity

**Storage** Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 0.25 mg/mL (determined by Absorbance at 280nm)

**Storage Buffer** Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

## GENE INFORMATION

**Gene Name** S spike glycoprotein [ SARS coronavirus Tor2 ]

**Official Symbol** S

**Synonyms** S; spike glycoprotein; E2

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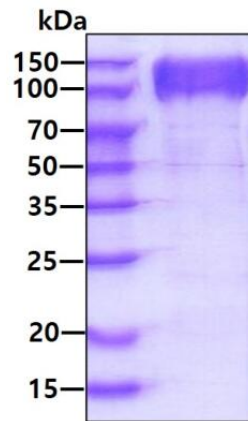
 45-1 Ramsey Road, Shirley, NY 11967, USA

**Gene ID** 1489668

**Protein Refseq** NP\_828851

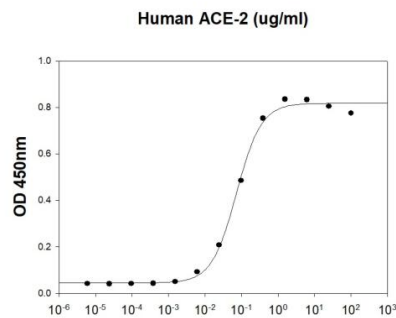
**UniProt ID** P59594

**SDS-PAGE**



3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

**Biological Activity**



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SARS-CoV S1 Subunit is coated at 5 µg/mL (100 µL/well) can bind Human ACE-2  
in a Functional ELISA assay.

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