

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

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

SPECIFICATION

Product Overview	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.
Species	SARS-CoV
Source	HEK293
ProteinLength	660
Description	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.
Form	Liquid
Bio-activity	Measured by its binding ability in a functional ELISA with Human ACE-2.
Molecular Mass	73.7kDa
AA Sequence	SDLDRCTTFDDVQAPNYTQHTSSMRGVYYPDEIFRSDTLYLTQDLFLPFYSNVTGFH TINHTFGNPVIPFKDGIYFAATEKSNVVRGWVFGSTMNNKSQSVIIINNSTNVVIRACN FELCDNPFFAVSKPMGTQTHMIFDNAFNCTFEYISDAFSLDVSEKSGNFKHLREFV

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FKNKDGFLYVYKGYQPIDVVRDLPSGFNTLKPIFKLPLGINITNFRAILTAFSPAQDIW
 GTSAAAYFVGYLKPTTFMLKYDENGITITDAVDCSQNPLAELKCSVKSFIDKGIYQTS
 NFRVVPSPGDVVRFPNITNLCPFGEVFNATKFPSVYAWERKKISNCVADYSVLYNSTF
 FSTFKCYGVSATKLNDLCFSNVYADSFVVKGDDVRQIAPGQTGVIADYNYKLPDDFM
 GCVLAWNTRNIDATSTGNYNKYRYLRHGKLRPFERDISNVPFSPDGKPCPPALN
 CYWPLNDYGFYTTTGIGYQPYRVVLSFELLNAPATVCGPKLSTDLIKNCVNFNFN
 GLTGTGVLTPSSKRFQPFQQFGRDVSDFDTSVRDPKTSEILDISPCAFGGVSVITPG
 TNASSEVAVLYQDVNCTDVSTAIHADQLTPAWRIYSTGNNVFQTQAGCLIGAEHVDV
 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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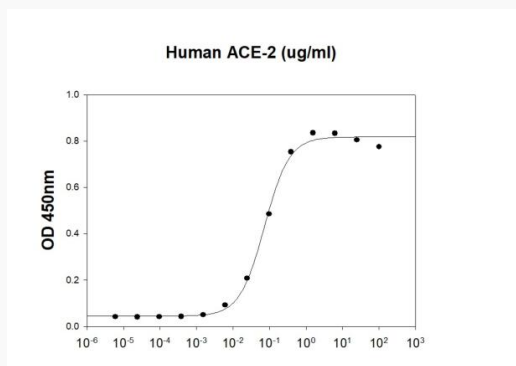
 45-1 Ramsey Road, Shirley, NY 11967, USA

Gene ID 1489668

Protein Refseq NP_828851

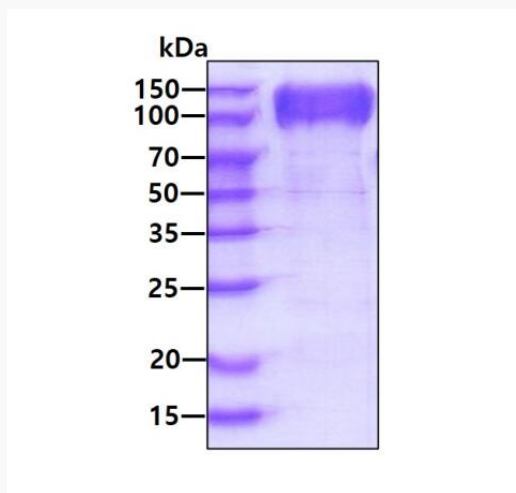
UniProt ID P59594

Biological Activity



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

SDS-PAGE



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

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