

Recombinant SARS-CoV-2 S-trimer Protein

Cat. No. S-5001S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This recombinant protein contains Covid-19 whole spike protein trimer (S-trimer) with a MW of~ 145 kDa on 7.5% reducing gel as a monomer. It is recognized by an anti-spike protein antibody in ELISA tests.
Species	SARS-CoV-2
Source	Insect Cells
Description	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive-sense, single-stranded RNA virus that causes coronavirus disease 2019 (COVID-19). Virus particles include the RNA genetic material and structural proteins needed for invasion of host cells. Once inside the cell the infecting RNA is used to encode structural proteins that make up virus particles, nonstructural proteins that direct virus assembly, transcription, replication and host control and accessory proteins whose function has not been determined.~ The structural proteins of SARS-CoV-2 include the envelope protein (E), spike or surface glycoprotein (S), membrane protein (M) and the nucleocapsid protein (N). The spike glycoprotein is found on the outside of the virus particle and gives coronavirus viruses their crown-like appearance. This glycoprotein mediates attachment of the virus particle and entry into the host cell. S protein is an important target for vaccine development, antibody therapies and diagnostic antigen-based tests.
Form	Purified, Liquid

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Molecular Mass	145 kDa
Purity	>90% pure by SDS-PAGE
Applications	Suitable for use in ELISA, CLIA, Lateral Flow, WB, and other immune tests.
Storage	Upon receipt, quick spin before open vial, aliquot and store at ≤ -20 centigrade. Avoid multiple freeze/thaw cycles
Storage Buffer	PBS, pH 7.3
Preservative	0.1% ProClin 300

GENE INFORMATION

Gene Name	S surface glycoprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	S
Synonyms	S; surface glycoprotein; spike glycoprotein; surface glycoprotein; structural protein; spike protein
Gene ID	43740568
mRNA Refseq	MN908947
Protein Refseq	YP_009724390

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