Recombinant SARS-CoV-2 (Wuhan-Hu-1) Spike Glycoprotein (Full-Length, 1-1211), C-His-tagged

Cat. No. Spike-12V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length SARS-CoV-2 spike glycoprotein, manufactured in Chinese hamster ovary (CHO) cells to high yield and purity. The furin cleavage site (amino acids 682-685) has been mutated from RRAR to SRAS and the transmembrane domain and intravirion part replaced with a glycine-serine linker and a His-tag. Horseradish peroxidase conjugated protein also available. SARS-CoV-2, previously known as the 2019 Novel Coronavirus (2019-nCoV), causes the pandemic COVID-19 disease.
Species	SARS-CoV-2
Source	CHO
ProteinLength	1-1211
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

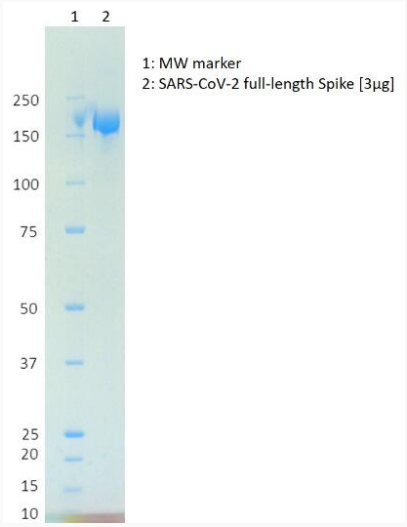
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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	Liquid
Molecular Mass	Expected Molecular Weight: 134 kDa Observed Molecular Weight: 170 kDa
Purity	> 95%
Applications	SARS-CoV-2 full-length spike binds ACE2 when used as capture antigen in immunoassay (ELISA), at a concentration between 0.5-5.0 μg/mL.
Storage	Short Term Storage: -80 centigrade Long Term Storage: -80 centigrade
Storage Buffer	Dulbecco's phosphate buffered saline (DPBS), pH 7.4.
Shipping	Dry Ice

GENE INFORMATION

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

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Protein Refseq	YP_009724390
UniProt ID	P0DTC2
SDS-PAGE	

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