

## Recombinant SARS-CoV-2 Trimeric Spike Protein (Ser13-Pro1213), C-His tagged, Animal-free, Carrier-free

Cat. No. S-223S Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

Recombinant SARS-CoV-2 Trimeric Spike Protein (Ser13-Pro1213) with C-His tag was expressed in HEK293 and Animal-free as well as Carrier-free.

#### Species

SARS-CoV-2

#### Source

HEK293

#### ProteinLength

Ser13-Pro1213

#### Description

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), is a 2019 novel coronavirus, that causes pandemic disease globally. SARS-CoV-2 is a single-stranded RNA virus that belongs to the Coronaviridae family. Structurally, the virus harbors sixteen non-structural proteins (NSP1-NSP16), four structural proteins (spike, membrane, envelope, and nucleocapsid), and nine accessory proteins. The spike protein is a 1273-amino-acids transmembrane, homotrimeric class I fusion protein that contains two functional subunits, receptor-binding subunit S1 (amino acids 14-685) and membrane-fusion subunit S2 (amino acids 686-1273). The trimeric spike protein on the surface of the virion is responsible for initiating viral infection through binding to the angiotensin-converting enzyme 2 (ACE2) receptor on host cells.

#### Form

Liquid

#### Molecular Mass

The protein has a calculated MW of 137.94 kDa.  
The protein migrates above 180 kDa under reducing condition (SDS-PAGE analysis).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

<b>Purity</b>	>95% as determined by SDS-PAGE analysis.
<b>Storage</b>	This product is stable after storage at: -80 centigrade for long-term storage under sterile conditions. Avoid repeated free-thaw cycles.
<b>Storage Buffer</b>	Phosphate buffered saline, pH 7.4.
<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at -80 centigrade or lower for long term storage.

## GENE INFORMATION

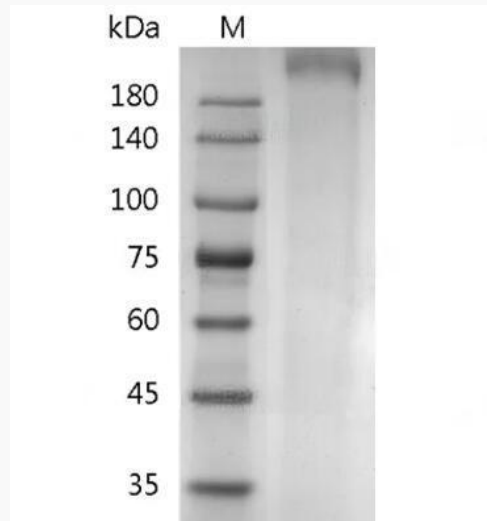
<b>Gene Name</b>	S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ]
<b>Official Symbol</b>	S
<b>Synonyms</b>	S; surface glycoprotein; spike glycoprotein; structural protein; spike protein
<b>Gene ID</b>	43740568
<b>Protein Refseq</b>	YP_009724390
<b>UniProt ID</b>	P0DTC2

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**SDS-PAGE analysis  
of recombinant  
SARS-CoV-2 trimeric  
spike protein.**



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