

Recombinant SARS-CoV-2 S Protein, His-tagged

Cat. No. S-243S Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant SARS-CoV-2 Spike Protein is produced by Insect. The target gene encoding 15-1214 is expressed with a 8His tag at the C terminus.

Species

SARS-CoV-2

Source

Insect Cells

Description

SARS-CoV-2 Spike Protein is glycoprotein and expressed in many cell types supporting its reported involvement in multiple biological processes that include coagulation, apoptosis, cancer development and progression, and the innate immune response. Known receptors bind S1 are ACE2, angiotensin-converting enzyme 2, DPP4, CEACAM, etc. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. Most notable is severe acute respiratory syndrome (SARS). The severe acute respiratory syndrome-coronavirus (SARS-CoV) spike (S) glycoprotein alone can mediate the membrane fusion required for virus entry and cell fusion. It is also a major immunogen and a target for entry inhibitors. It's been reported that 2019-nCoV can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

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Form	Supplied as a 0.2 um filtered solution of PBS, pH7.4.
Molecular Mass	Predicted Molecular Weight: 134kDa Apparent Molecular Weight: 130kDa, under reducing conditions.
AA Sequence	15-1214 aa
Endotoxin	Less than 0.1 ng/ug (1 EU/ug).
Purity	>95%
Storage	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months. Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Quality Statement	Purity: >95% as determined by reducing SDS-PAGE.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

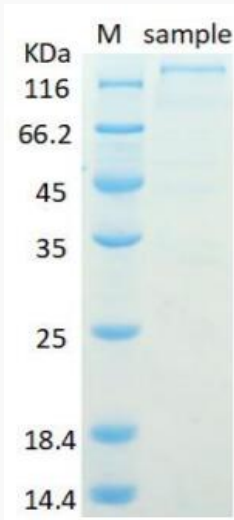
GENE INFORMATION

Gene Name	S surface glycoprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	S

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Synonyms	Spike glycoprotein; 2019-nCoV S protein; coronavirus S Protein; cov S Protein; E2; Peplomer protein
Gene ID	43740568
Protein Refseq	YP_009724390.1
UniProt ID	P0DTC2
SDS-PAGE	 Sample under reducing conditions