

Recombinant 2019-nCoV Spike RBD (N501Y) Protein, Fc-tagged

Cat. No. Spike-086V **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant 2019-nCoV Spike RBD (N501Y) Protein(YP_009724390.1)(Arg319-Ser541), fused to C-terminal Fc Tag, was expressed in Mammalian expression system.

Species Sars-Cov-2

Source HEK293

ProteinLength Arg319-Ser541

Description

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.

 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

Form	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4
Molecular Mass	58-65kDa, reducing conditions
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Applications	Immunogen, calibrator or standard.
Storage	Reconstituted protein solution should be stored at ≤ -20°C.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	S surface glycoprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	Spike
Synonyms	2019-nCov RBD Protein; 2019-nCoV Spike RBD Protein; 2019-nCoV S Protein RBD; 2019-nCoV S-RBD
Gene ID	43740568
Protein Refseq	YP_009724390.1
UniProt ID	P0DTC2

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