

Recombinant 2019-nCoV S(HV69-70del, Y144del, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H) Protein, His-tagged

Cat. No. Spike-048V Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant 2019-nCoV S protein (HV69-70del, Y144del, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H), His Tag (SPN-C52H6) is the ectodomain of SARS-CoV-2 S protein that contains AA Val 16 - Pro 1213 (Accession # QHD43416.1) and HV69-70del, Y144del, N501Y, A570D, D614G, P681H, T716I, S982A, D1118H mutations, which have become increasingly common in SARS-CoV-2 viruses from around the world. The recombinant protein is expressed from human 293 cells (HEK293) with T4 fibrin trimerization motif and a polyhistidine tag at the C-terminus.

Species

Sars-Cov-2

Source

HEK293

ProteinLength

Val 16 - Pro 1213

Description

It's been reported that Coronavirus 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	PBS
Molecular Mass	The protein has a calculated MW of 137.8 kDa.
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20°C or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.</p>
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	S
Synonyms	Spike, S1 protein, Spike glycoprotein Subunit1, S glycoprotein Subunit1, Spike protein S1, COVID-19
Gene ID	43740568
Protein Refseq	YP_009724390.1
UniProt ID	P0DTC2

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