

Recombinant SARS-CoV-2 (Kappa B.1.617.1 (India)) Spike S1 Protein (RBD, Mutant (L452R, E484Q)) (AA 319-541), C-GFP/His-Tagged

Cat. No. S-175S Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant SARS-CoV-2 (Wuhan seafood market pneumonia virus) Spike S1 Protein (RBD, Mutant (L452R, E484Q)) (AA 319-541) with C-GFP/His tag was expressed in HEK293.

Species SARS-CoV-2

Source HEK293

ProteinLength AA 319-541

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 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

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therapies and diagnostic antigen-based tests.

Form

Liquid

AA Sequence

MRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISNCVADYSVLYNSASF
STFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVQRQIAPGQTGKIADYNYKLPDDFTG
CUIAWNSNNLDSKVGGNYRYRFLFRKSNLKPFRDISTEIQAGSTPCNGVQGFN
CYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVNFX ;
ndicates mutation sites

Purity

> 95% as determined by SDS-PAGE

Storage

Stored and shipped at -80 centigrade

Storage Buffer

PBS, pH 7.4

GENE INFORMATION

Gene Name

S surface glycoprotein [Severe acute respiratory syndrome coronavirus 2]

Official Symbol

S

Synonyms

S; surface glycoprotein; spike glycoprotein; surface glycoprotein; structural protein;
spike protein

Gene ID

43740568

Protein Refseq

YP_009724390

UniProt ID

P0DTC2

SDS-PAGE

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Histogram of marked
lane in gel picture

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