Recombinant SARS-CoV-2 Spike RBD (N481D) Mutant Protein, His-tagged

Cat. No. S-077S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant SARS coronavirus 2 Spike- RBD protein(Lys310~Leu560), N481D, with C-terminal His tag, secretory expressed in HEK293 cells
Species	SARS-CoV-2
Source	HEK293
ProteinLength	310-560
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 therapies and diagnostic antigen-based tests.

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Molecular Mass	30.1 kDa
Purity	> 95% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	> 50 μg/mL as determined by microplate BCA method
Storage Buffer	PBS, 10 mM PB, 150 mM NaCl, pH 7.2

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
mRNA Refseq	MN908947
Protein Refseq	QHD43416

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