

Recombinant SARS-CoV-2 Spike NTD Protein, His-tagged

Cat. No. S-999S Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant SARS-CoV-2 Spike N-terminal Domain (NTD; GenBank QHD43416.1, a.a.16-303) with a 6xHIS tag was expressed in HEK293 cells and purified by nickel affinity chromatography.

Species SARS-CoV-2

Source HEK293

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.

Form Liquid

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Molecular Mass	~75 kDa
Purity	> 95 % by SDS-PAGE
Stability	12 months from shipment date.
Storage	Store at -20 to -80 centigrade. The thawed product is stable at 2-8 centigrade for one week. Following the initial thaw, please prepare multiple aliquots and store at -20 centigrade. It is not recommended to store the product in a frost-free freezer. Multiple freeze-thaw cycles are not recommended.
Storage Buffer	PBS buffer, pH 7.2, 0.5M Imidazole
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

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