Recombinant SARS-CoV-2 S1 Protein (RBD) (Y453F) (AA 319-541), C-GFP/His-Tagged

Cat. No. S-167S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 (Wuhan seafood market pneumonia virus) S1 Protein (RBD) (Y453F) (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 therapies and diagnostic antigen-based tests.

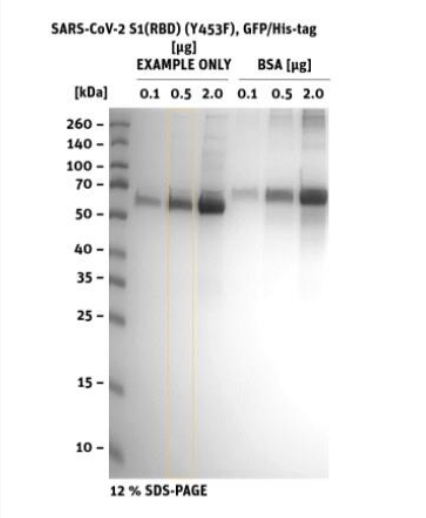
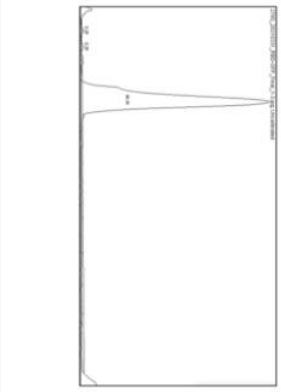
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Form	Liquid
AA Sequence	MRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISNCVADYSVLYNSASF STFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIADYNYKLPDDFTG CVIAWNSNNLDSKVGGNYNYLFRLFRKSNLKPFERDISTEIYQAGSTPCNGVEGFNC YFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVNFX ind icates mutation sites
Purity	> 85% 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

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SDS-PAGE	
Histogram of marked lane in gel picture	 | | Area | Percent | |---|---|---| | 1 | 38.485 | 0.262 | | 2 | 53.192 | 0.362 | | 3 | 14617.518 | 99.377 |

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