Recombinant SARS-CoV-2 Epsilon strain S1 RBD (L452R mutant) Protein, His-tagged

Cat. No. S-605S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant epsilon strain SARS-CoV-2 Spike Protein, S1 Subunit (a.a. 319-541) RBD (L452R Mutant) with a His tag was expressed in insect cell.
Species	SARS-CoV-2
Source	Insect Cells
ProteinLength	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	Affinity Purified
Molecular Mass	Calculated ~ 26 kDa
Purity	≥ 90% (SDS-PAGE)
Applications	Suitable for use in ELISA and Western Blot. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Storage	Store at -20 centigrade. Avoid repeated freeze/thaw cycles.
Concentration	2.2 mg/mL (BCA)
Storage Buffer	Phosphate Buffered Saline, 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
mRNA Refseq	MN908947
Protein Refseq	YP_009724390

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