Recombinant SARS-CoV-2 S RBD Protein, 319-514 aa, Biotinylated

Cat. No. S-270S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant-2019 nCoV/COVID19 RBD protein was developed from CHO cells.
Species	SARS-CoV-2
Source	CHO
ProteinLength	319-514 aa
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.
Conjugation/Label	Biotin

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Form	Lyophilised
Bio-activity	The activity was determined by immobilized human ACE2 Protein binding with biotinylated RBD in a functional ELISA assay, the linear was determined to be 10-100 ng/mL.
Endotoxin	Endotoxin level was found to be less than 0.1 ng/μg (1 EU/μg).
Notes	FOR RESEARCH USE ONLY (RUO).
Storage	The lyophilized protein is stable for at least 1 year from date of receipt at -20 centigrade.
Storage Buffer	Lyophilised from 0.2 μm filtered PBS pH 7.4.
Reconstitution	Upon receipt a quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Conjugation	Biotin

GENE INFORMATION

Gene Name	S surface glycoprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	S
Synonyms	S; surface glycoprotein; spike glycoprotein; structural protein; spike protein
Gene ID	43740568

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Protein Refseq	YP_009724390
UniProt ID	P0DTC2

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