

Recombinant SARS-CoV-2, B.1.1.529, Omicron, S RBD Protein, ECD, His tagged, Biotinylated

Cat. No. S-272S Lot. No. (See product label)

SPECIFICATION

Product Overview

COV2 Spike protein RBD B.1.1.529 (Omicron)-His-Tag protein was developed from HEK293 and has a target region of His-Tag.

Species

SARS-CoV-2

Source

HEK293

ProteinLength

ECD

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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Conjugation/Label	Biotin
Form	Lyophilised
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 solution 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
Protein Refseq	YP_009724390

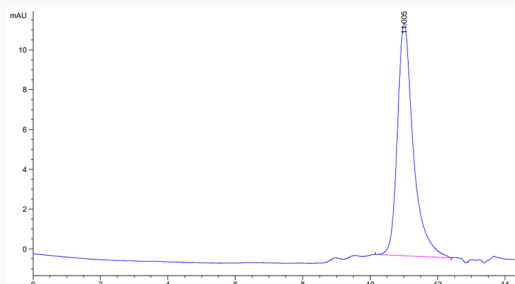
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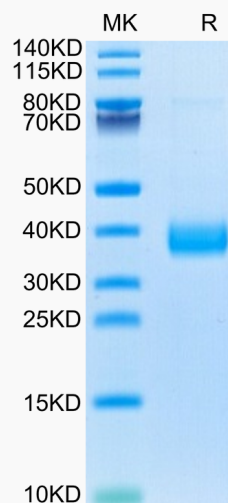
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UniProt ID
P0DTC2

The purity of 2019-nCoV Spike RBD B.1.1.529 omicron is greater than 95% as determined by SEC-HPLC.



1 µg loaded Tris-Bis PAGE under reducing condition. The purity is greater than 95%.



COV2 RBD (coating at 0.1 µg/well) binding with Human ACE2-Fc. The linear range was found to be 100 ng/mL.

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