

Recombinant SARS-CoV-2 Omicron Variant BA.4 Spike S1 RBD Protein, C-His-tagged

Cat. No. S-650S Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 Omicron variant BA.4 spike S1 subunit receptor binding protein (RBD) with 17 mutant sites (G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H) with C-terminal His-tag, derived from the transfected human HEK293 cells.
Species	SARS-CoV-2
Source	HEK293
ProteinLength	Arg319-Phe541, 17 mutant sites (G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, L452R, S477N, T478K, E484A, F486V, Q498R, N501Y, Y505H).
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

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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

Molecular Mass

Recombinant protein product has a calculated molecular mass of 25 kDa. Due to the abundant glycosylation, it migrates as approximately 30 kDa protein bands in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions.

Endotoxin

< 0.5 EU/μg of the protein as determined by the LAL method

Purity

> 90%, SDS-PAGE under reducing conditions and visualized by Coomassie blue staining

Applications

Functional Assay, Protein-protein Interaction, Post-translational Modifications, ELISA, EIA, Western Blotting, Dot Blotting, Immunoprecipitation, Protein Array, etc.

Notes

This product is furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.

Storage

Upon arrival, the protein may be stored for 2 weeks at 4 centigrade. For long term storage, it is recommended to store at -20 centigrade or -80 centigrade in appropriate aliquots. Avoid repeated freeze-thaw cycles.

Storage Buffer

Supplied as a 0.2 um filtered solution in PBS (pH 7.4)

Shipping

Ice packs

GENE INFORMATION

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Gene Name	S surface glycoprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	S
Synonyms	S; surface glycoprotein; structural protein; spike protein
Gene ID	43740568
Protein Refseq	YP_009724390
UniProt ID	P0DTC2

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