Active Recombinant COVID-19 Spike RBD (V367F) protein, mFc-tagged

Cat. No. Spike-300V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) Spike Protein (RBD) (YP_009724390.1) (Arg319-Phe541(V367F)) was expressed in HEK293 cells with the Fc region of mouse IgG1 at the C-terminus.
Species	Sars-CoV-2
Source	HEK293
ProteinLength	Arg319-Phe541
Predicted N Terminal	Arg319
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	The SARS-CoV-2 (2019-nCoV) Spike RBD-mFc (V367F) Recombinant Protein can bind with Human ACE2 in functional ELISA assay.
Molecular Mass	The recombinant SARS-CoV-2 (2019-nCoV) Spike Protein (RBD, mFc Tag) consists of 457 amino acids and predicts a molecular mass of 51.54 kDa.
Endotoxin	< 1.0 EU per μg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE.

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Stability	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C.
Storage	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	S
Official Symbol	S
Synonyms	coronavirus spike Protein, 2019-nCoV; cov spike Protein, 2019-nCoV; ncov RBD Protein, 2019-nCoV; ncov s1 Protein, 2019-nCoV; ncov s2 Protein, 2019-nCoV; ncov spike Protein, 2019-nCoV; NCP-CoV RBD Protein, 2019-nCoV; NCP-CoV s1 Protein, 2019-nCoV; NCP-CoV s2 Protein, 2019-nCoV; NCP-CoV Spike Protein, 2019-nCoV; novel coronavirus RBD Protein, 2019-nCoV; novel coronavirus s1 Protein, 2019-nCoV; novel coronavirus s2 Protein, 2019-nCoV; novel coronavirus spike Protein, 2019-nCoV; RBD Protein, 2019-nCoV; S1 Protein, 2019-nCoV; S2 Protein, 2019-nCoV; Spike RBD Protein, 2019-nCoV
Gene ID	43740568
Protein Refseq	YP_009724390.1

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UniProt ID	P0DTC2

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