

Active Recombinant SARS-CoV-2 Spike RBD (L452R,T478K) Protein, His-tagged

Cat. No. S-415S Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 Spike RBD (YP_009724390.1, with mutations L452R,T478K) (Arg319-Phe541) was expressed in HEK293 cell with a polyhistidine tag at the C-terminus. The mutations were identified in the SARS-CoV-2 variant (known as variant B.1.617.2) which emerged in the India.
Species	SARS-CoV-2
Source	HEK293
ProteinLength	319-541
Predicted N Terminal	Arg 319
Bio-activity	Immobilized ACE2 Protein, Human, Recombinant (mFc Tag) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 Spike RBD (L452R,T478K) Protein (His Tag), the EC ₅₀ of SARS-CoV-2 Spike RBD (L452R,T478K) Protein (His Tag) is 4-24 ng/mL.
Molecular Mass	The recombinant SARS-CoV-2 Spike RBD consists of 234 amino acids and predicts a molecular mass of 26.6 kDa. As a result of glycosylation, it migrates as an approximately 36.9 kDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU/µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.

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Storage

Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.

Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer

Lyophilized from sterile PBS, pH 7.4.

Please contact us for any concerns or special requirements.

Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

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](#)

SDS-PAGE

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