

Active Recombinant SARS-CoV-2 (2019-nCoV) Spike S1(D614G) Protein, His-tagged, HPLC-verified

Cat. No. S-491S Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 (2019-nCoV) Spike S1(D614G)-His Recombinant Protein (YP_009724390.1) (Val16-Arg685(D614G)) was expressed in HEK293 cell with a polyhistidine tag at the C-terminus.
Species	SARS-CoV-2
Source	HEK293
ProteinLength	16-685
Predicted N Terminal	Val 16
Bio-activity	1. Measured by its binding ability in a functional ELISA. Immobilized human ACE2 protein (Fc tag) at 2 µg/mL (100 µL/well) can bind 2019-nCoV S1(D614G)h, the EC50 of 2019-nCoV S1(D614G)h is 250-650 ng/mL. 2. Loaded ACE2 Protein, Human, Recombinant (mFc Tag) on AMC Biosensor, can bind SARS-CoV-2 (2019-nCoV) Spike S1(D614G)-His Recombinant Protein with an affinity constant of 57.7 nM as determined by Octet RED System.
Molecular Mass	The recombinant SARS-CoV-2 (2019-nCoV) Spike S1(D614G)-His Recombinant Protein consists of 681 amino acids and predicts a molecular mass of 76.41 kDa.
Endotoxin	< 1.0 EU/µg protein as determined by the LAL method.

 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

Purity	> 90 % as determined by SDS-PAGE. > 90 % as determined by SEC-HPLC.
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
Activity	
SDS-PAGE	

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