

Active Recombinant COVID-19 Spike S1 (D614G) protein, His-tagged

Cat. No. Spike-219V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant COVID-19 Spike S1 (D614G) protein (Val16-Arg685) was fused to His-tag at the C-terminus and expressed in human 293 cells (HEK293).
Species	Sars-CoV-2
Source	HEK293
ProteinLength	Val16-Arg685(D614G)
Form	Lyophilized from sterile 50 mM Tris, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
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) 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 per 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°C to -80°C 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 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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