

## Recombinant COVID-19 Spike S1+S2 (T19R, E156G, 157-158 deletion, L452R, T478K, D614G, P681R, D950N) protein(Met1-Pro1213), His-tagged

Cat. No. Spike-1248V Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant SARS-CoV-2 Spike S1+S2 (YP_009724390.1, with mutations T19R, E156G, 157-158 deletion, L452R, T478K, D614G, P681R, D950N) (Met1-Pro1213) was expressed in Insect Cells with a polyhistidine tag at the C-terminus. The mutations were identified in the SARS-CoV-2 variant (known as variant AY.3, AY.4) which emerged in the India.
<b>Species</b>	Sars-CoV-2
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	Met1-Pro1213
<b>Form</b>	Lyophilized from sterile 20mM Tris, 300mM NaCl, 10% glycerol, pH 8. 5. Normally 5% - 8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Bio-activity</b>	Immobilized ACE2 Protein, Human, Recombinant (mFc Tag) at 2 µg/mL (100 µL/well) can bind SARS-CoV-2 Spike S1+S2 (T19R, E156G, 157-158 deletion, L452R, T478K, D614G, P681R, D950N) Protein (ECD, His Tag), the EC50 is 200-1200ng/mL.
<b>Molecular Mass</b>	The recombinant SARS-CoV-2 Spike S1+S2 consists of 1207 amino acids and predicts a molecular mass of 134.14 kDa.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 90 % as determined by SDS-PAGE.
<b>Storage</b>	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.
<b>Reconstitution</b>	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.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ]</a>
<b>Official Symbol</b>	<a href="#">Spike</a>
<b>Synonyms</b>	Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1
<b>Gene ID</b>	<a href="#">43740568</a>
<b>Protein Refseq</b>	<a href="#">YP_009724390.1</a>
<b>UniProt ID</b>	<a href="#">P0DTC2</a>

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