

Recombinant COVID-19 Spike S1 (T19R, G142D, W258L, K417N, L452R, T478K, D614G, P681R) protein(Met1-Arg685), His-tagged

Cat. No. Spike-1278V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant SARS-CoV-2 Spike S1 (YP_009724390.1, with mutations T19R, G142D, W258L, K417N, L452R, T478K, D614G, P681R) (Met1-Arg685) was expressed in HEK293 with a polyhistidine tag at the C-terminus. The mutations were identified in the SARS-CoV-2 variant (known as variant AY.1) which emerged in the India.
Species	Sars-CoV-2
Source	HEK293
ProteinLength	Met1-Arg685
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant SARS-CoV-2 Spike S1 consists of 681 amino acids and predicts a molecular mass of 76.56 kDa. As a result of glycosylation, it migrates as an approximately 108.01 kDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE

 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

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.
-----------------------	---

GENE INFORMATION

Gene Name	S surface glycoprotein [Severe acute respiratory syndrome coronavirus 2]
------------------	--

Official Symbol	Spike
------------------------	-------

Synonyms	Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1
-----------------	---

Gene ID	43740568
----------------	----------

Protein Refseq	YP_009724390.1
-----------------------	----------------

UniProt ID	P0DTC2
-------------------	--------

 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