

## SARS-CoV-2 S glycoprotein (V483A, HEK 293, His)

Cat. No.:	HY-P72042
Synonyms:	E2 Peplomer protein
Species:	Virus
Source:	HEK293
Accession:	P0DTC2 (R319-F541,V483A)
Gene ID:	43740568
Molecular Weight:	Approximately 27.8 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> RVQPTESIVR   FPNITNLCPF   GEVFNATRFA   SVYAWNRRKRI SNCVADYSVL   YNSASFSTFK   CYGVSPTKLN   DLCFTNVYAD SFVIRGDEV R   QIAPGQTGKI   ADYNYKLPDD   FTGCVIAWNS NNLDSKVGGN   YNYLYRLFRK   SNLKPFERDI   STEIYQAGST PCNGAEGFNC   YFPLQSYGFQ   PTNGVGYQPY   RVVVLSELL HAPATVCGPK   KSTNLVKKNC   VNF           </pre>
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD at 5 µg/mL can bind human ACE2, the EC50 is 196.4-272.1 ng/mL. Measured by its binding ability in a functional ELISA. Immobilized SARS-CoV-2-S1-RBD at 2 µg/mL can bind
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in sterile distilled water.
<b>Storage &amp; Stability</b>	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. The viral pathogen responsible, severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), binds to the host receptor through its spike (S) glycoprotein, which mediates membrane fusion and viral entry <sup>[1][2]</sup> .The
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## REFERENCES

[1]. Shen S, et al. Expression, glycosylation, and modification of the spike (S) glycoprotein of SARS CoV. *Methods Mol Biol.* 2007;379:127-135.

[2]. Wang S, et al. AXL is a candidate receptor for SARS-CoV-2 that promotes infection of pulmonary and bronchial epithelial cells. *Cell Res.* 2021;31(2):126-140.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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