

## SARS-CoV-2 S1 Protein (HEK293, Fc)

<b>Cat. No.:</b>	HY-P7435
<b>Synonyms:</b>	2019-nCov RBD Protein; 2019-nCoV Spike RBD Protein; S protein RBD; 2019-nCoV S protein RBD
<b>Species:</b>	Virus
<b>Source:</b>	HEK293
<b>Accession:</b>	QHD43416.1 (Q14-R685)
<b>Gene ID:</b>	43740568
<b>Molecular Weight:</b>	130-140 kDa

### PROPERTIES

#### AA Sequence

Q C V N L T T R T Q	L P P A Y T N S F T	R G V Y Y P D K V F	R S S V L H S T Q D
L F L P F F S N V T	W F H A I H V S G T	N G T K R F D N P V	L P F N D G V Y F A
S T E K S N I I R G	W I F G T T L D S K	T Q S L L I V N N A	T N V V I K V C E F
Q F C N D P F L G V	Y Y H K N N K S W M	E S E F R V Y S S A	N N C T F E Y V S Q
P F L M D L E G K Q	G N F K N L R E F V	F K N I D G Y F K I	Y S K H T P I N L V
R D L P Q G F S A L	E P L V D L P I G I	N I T R F Q T L L A	L H R S Y L T P G D
S S S G W T A G A A	A Y Y V G Y L Q P R	T F L L K Y N E N G	T I T D A V D C A L
D P L S E T K C T L	K S F T V E K G I Y	Q T S N F R V Q P T	E S I V R F P N I T
N L C P F G E V F N	A T R F A S V Y A W	N R K R I S N C V A	D Y S V L Y N S A S
F S T F K C Y G V S	P T K L N D L C F T	N V Y A D S F V I R	G D E V R Q I A P G
Q T G K I A D Y N Y	K L P D D F T G C V	I A W N S N N L D S	K V G G N Y N Y L Y
R L F R K S N L K P	F E R D I S T E I Y	Q A G S T P C N G V	E G F N C Y F P L Q
S Y G F Q P T N G V	G Y Q P Y R V V V L	S F E L L H A P A T	V C G P K K S T N L
V K N K C V N F N F	N G L T G T G V L T	E S N K K F L P F Q	Q F G R D I A D T T
D A V R D P Q T L E	I L D I T P C S F G	G V S V I T P G T N	T S N Q V A V L Y Q
D V N C T E V P V A	I H A D Q L T P T W	R V Y S T G S N V F	Q T R A G C L I G A
E H V N N S Y E C D	I P I G A G I C A S	Y Q T Q T N S P R R	A R

**Biological Activity** Binding ability is measured by functional ELISA, 10 µg/mL (100 µL/well) of immobilized recombinant human ACE-2, Fc produces 50% optimal binding response approximately 0.85 µg/mL.

**Appearance** Solution.

**Formulation** Supplied as a 0.2 µm filter solution of PBS, pH 7.4.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** N/A

**Storage & Stability** Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

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**Shipping**

Shipping with dry ice.

**DESCRIPTION****Background**

The spike (S) glycoprotein of SARS-CoV-2 is a main target for neutralization antibody, uses ACE2 to enter host cells. SARS-CoV-2 S glycoprotein harbors a furin cleavage site at the boundary between the S1/S2 subunits, which is processed during biogenesis and sets this virus apart from SARS-CoV and SARS-related CoVs<sup>[1]</sup>.

**REFERENCES**

[1]. Rory Henderson, et al. Controlling the SARS-CoV-2 Spike Glycoprotein Conformation. bioRxiv. 2020 May 18;2020.05.18.102087.

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

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