

SARS-CoV-2 S1 Protein (HEK293, mFc)

Cat. No.:	HY-P7434
Synonyms:	2019-nCov RBD Protein; 2019-nCoV Spike RBD Protein; S protein RBD; 2019-nCoV S protein RBD
Species:	Virus
Source:	HEK293
Accession:	QHD43416.1 (Q14-R685)
Gene ID:	43740568
Molecular Weight:	130-160 kDa

PROPERTIES

AA Sequence

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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
  
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Biological Activity The ED₅₀ is 0.19 µg/mL as measured by ELISA binding capacity to immobilized Human ACE-2, Fc.

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.

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^[1].

REFERENCES

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

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA