

SARS-CoV-2 S glycoprotein (G476S, HEK293, His)

Cat. No.:	HY-P72041
Synonyms:	E2 Peplomer protein
Species:	Virus
Source:	HEK293
Accession:	P0DTC2 (R319-F541, G476S)
Gene ID:	43740568
Molecular Weight:	Approximately 27.9 kDa

PROPERTIES

AA Sequence	<pre> RVQPTESIVR FPNITNLCPF GEVFNATRFA SVYAWNRRKI SNCVADYSVL YNSASFSTFK CYGVSP TKLN DLCFTNVYAD SFVIRGDEVR QIAPGQTGKI ADYNYKLPDD FTGCVIAWNS NNLDSKVGGN YNYLYRLFRK SNLKPFERDI STEIYQASST PCNGVEGFNC YFPLQSYGFQ PTNGVGYQPY RVVVLSELL HAPATVCGPK KSTNLVKKNC VNF </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>SARS-CoV-2, causes the global pandemic coronavirus disease 2019 (Covid-19). SARS-CoV-2 belongs to a family of viruses known as coronavirus. SARS-CoV-2 is the third human coronavirus this century known to cause pneumonia with a significant case-fatality rate.</p> <p>SARS-CoV-2 is comprised of four structural proteins: Spike protein (S protein), Envelope protein (E), Membrane protein (M), and Nucleocapsid protein (N).</p> <p>D614G does not alter S protein synthesis, processing, or incorporation into SARS-CoV-2 particles, but D614G affinity for ACE2 is reduced due to a faster dissociation rate^{[2][3]}.</p>
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REFERENCES

[1]. Junxian Ou, et al. V367F Mutation in SARS-CoV-2 Spike RBD Emerging during the Early Transmission Phase Enhances Viral Infectivity through Increased Human ACE2 Receptor Binding Affinity. J Virol. 2021 Jul 26;95(16):e0061721.

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

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