SARS-CoV-2 S glycoprotein (V367F, HEK293, His)

Cat. No.:	HY-P72040
Synonyms:	E2 Peplomer protein
Species:	Virus
Source:	HEK293
Accession:	P0DTC2 (R319-F541, V367F)
Gene ID:	43740568
Molecular Weight:	Approximately 27.9 kDa

PROPERTIES

AA Sequence	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 F 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
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	SARS-CoV-2, causes the global pandemic coronavirus disease 2019 (Covid-19). SARS-CoV-2 belongs to a family of viruses known as coronaviruse. SARS-CoV-2 is the third human coronavirus this century known to cause pneumonia with a significant case-fatality rate. SARS-CoV-2 is comprised of four structural proteins: Spike protein (S protein), Envelope protein (E), Membrane protein (M), and Nucleocapsid protein (N). 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].

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.

[2]. Leonid Yurkovetskiy, et al. Structural and Functional Analysis of the D614G SARS-CoV-2 Spike Protein Variant. Cell. 2020 Oct 29;183(3):739-751.e8.

[3]. Jessica A Plante, et al. Spike mutation D614G alters SARS-CoV-2 fitness. Nature. 2021 Apr;592(7852):116-121.

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