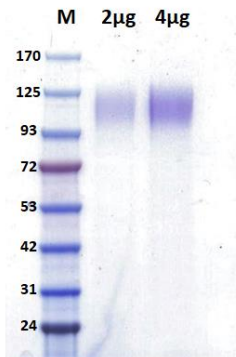


Human CellExp™ SARS-CoV-2 S1 Protein (D614G), Recombinant

CATALOG NO:	P1652-10 10 µg P1652-50 50 µg
ALTERNATE NAMES:	S1 Protein, Spike glycoprotein subunit1, S glycoprotein subunit1, SARS-CoV-2 S1 Protein
MOL. WT:	~120 kDa (Val 16 - Arg 685 ending with RRAR + 8x His tag at the C-terminus)
SOURCE:	HEK 293 cells
PURITY:	> 95% SDS-PAGE
FORM:	Lyophilized
FORMULATION:	Lyophilized from 0.22 µm filtered PBS (pH 7.4) with 5% trehalose
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in sterile PBS (pH 7.4). Do not vortex.
STORAGE CONDITIONS:	Store at -20 °C. Once reconstituted, aliquot and store at -20 °C or -70 °C for long term storage. Avoid repeated freeze and thaw cycles.
DESCRIPTION:	SARS-CoV-2, the causative virus of COVID-19, uses the viral Spike (S) protein for host cell attachment and entry. The virus uses multiple factors including the human protease Furin, Angiotensin converting enzyme 2 (ACE2), Neuropilin-1 (NRP1) and the transmembrane protease serine 2 (TMPRSS2) for receptor interactions. The S protein has two domains S1 and S2, where S1 facilitates initial binding to the receptor and the S2 domain drives the membrane fusion and eventual entry of the virus. The S glycoprotein serves as an important target for monoclonal antibodies, entry inhibitors, and vaccines. Within the S1 protein, the conserved receptor-binding domain (RBD) binds with a high affinity for ACE2. Recently, a new strain of SARS-CoV-2 has been discovered with a mutation in the S1 protein (amino acid D614 to G614) outside the RBD. Early studies provide evidence that D614G SARS-CoV-2 virus strain is likely to be more infectious and is present in the majority of current infections globally.
AMINO ACID SEQUENCE:	Val 16 - Arg 685



SDS-PAGE (4-20%) of Recombinant SARS-CoV-2 S1 Protein (D614G): 2 and 4 µg of the recombinant protein is loaded under reducing (R) conditions and stained with Coomassie Blue. The protein migrates at around ~120 kDa due to glycosylation.

RELATED PRODUCTS:

- Human CellExp™ SARS-CoV-2 Spike Protein (RBD 310-568), Recombinant (P1553)
- Human CellExp™ SARS-CoV-2 Nucleoprotein, Recombinant (P1554)
- Human CellExp™ Angiotensin-Converting Enzyme 2 (ACE2), Human Recombinant (P1535)
- SARS-CoV-2 S1 Protein-ACE2 Binding Inhibitor Screening Kit (K2050)
- Angiotensin II Converting Enzyme (ACE2) Inhibitor Screening Kit (K310)
- Angiotensin II Converting Enzyme (ACE2) Activity Assay Kit (Fluorometric) (K897)
- Anti-ACE2 Antibody (A2072)
- ACE2 (Human) ELISA Kit (E4528)

FOR RESEARCH USE ONLY! Not to be used on humans.