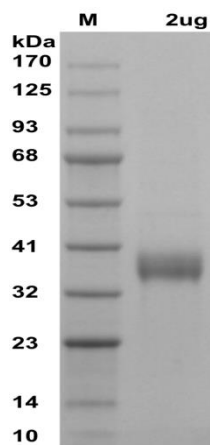


Human CellExp™ SARS-CoV-2 Spike Protein (RBD; 310-568), Recombinant

CATALOG NO:	P1543-10 10 µg P1543-50 50 µg
ALTERNATE NAMES:	Novel Coronavirus RBD Protein, 2019-nCoV Spike Protein RBD, SARS-CoV-2 S1 RBD Protein
MOL. WT.	~30 kDa (6xHis 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. Avoid repeated freezing and thawing cycles.
DESCRIPTION:	The spike (S) glycoprotein of coronaviruses mediates entry into receptor-expressing host cells and plays the most important role in viral attachment, fusion, and entry; therefore, it serves as an important target for monoclonal antibodies, entry inhibitors, and vaccines. The S protein has two domains S1 and S2, where S1 facilitates initial binding to the receptor and the S2 domain drives membrane fusion and eventual entry of the virus. Within the S1 protein, the highly conserved receptor-binding domain (RBD) expresses a high affinity for the Angiotensin converting enzyme 2 receptor (ACE2). Experiments have shown that the RBD fragment blocked S-protein mediated infections and suggests potential as a viral attachment or entry inhibitor against SARS-CoV-2.
AMINO ACID SEQUENCE:	aa 310-568



SDS-PAGE (4-20%) of Recombinant SARS-CoV-2 Spike Protein (RBD; 310-568): 2 µg of the recombinant protein is loaded under reducing (R) conditions and stained with Coomassie Blue. The protein migrates around ~35 kDa due to glycosylation.

RELATED PRODUCTS:

- Recombinant Coronavirus Nucleoprotein (CoV-NP-NL63) (P1507)
- Human CellExp™ Coronavirus Spike Protein (SARS-CoV-2; S1), Recombinant (P1524)
- Recombinant Coronavirus Spike Protein (SARS-CoV S1; 1-53, 90-115, 171-205, His tag) (P1516)
- Recombinant Coronavirus Spike Protein (SARS-CoV-2; His tag) (P1528)
- Recombinant Coronavirus Spike Protein (SARS-CoV S2; 408-470, 540-573, His Tag) (P1517)
- Recombinant Coronavirus Spike Protein (SARS-CoV S2; 408-470, 540-573) (P1518)
- Human CellExp™ Coronavirus Spike Protein (SARS-CoV-2; RBD), Recombinant (P1529)

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