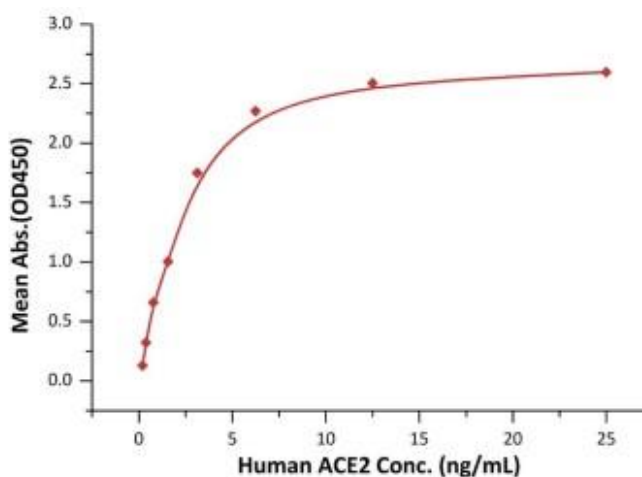


Human CellExp™ SARS-CoV-2 Spike RBD (L452R, T478K), Recombinant

08/21

CATALOG NO:	P1744-100 100 µg
ALTERNATE NAMES:	COVID-19 Spike RBD protein; 2019-nCoV Spike RBD protein; SARS-CoV-2 Mutant (L452R, T478K)
MOL. WT.	26.6 kDa (calculated); 33-35 kDa (observed due to glycosylation)
SOURCE:	HEK 293 cells
PURITY:	≥ 90% by SDS-PAGE
ENDOTOXIN:	< 1 EU per 1 µg of protein as determined by LAL method
FORM:	Lyophilized powder
FORMULATION:	Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally trehalose is added as protectant before lyophilization.
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in sterile PBS (pH 7.4). Do not vortex
STORAGE CONDITIONS:	Stable at -20 °C to -70 °C for 12 months as lyophilized protein. Stable at -70 °C for 3 months under sterile conditions after reconstitution.
DESCRIPTION:	SARS-CoV-2 Spike protein is a large type I transmembrane protein composed of S1 subunit and S2 subunit. During viral infection, the receptor-binding domain (RBD) of the S1 subunit is responsible for the recognition and binding of host receptor ACE2, while the S2 subunit mediates viral cell membrane fusion. The SARS-CoV-2-S1-RBD/ACE2 interaction mediates viral entry into the target cells. The mutations at L452R and T478K were identified in the SARS-CoV-2 Delta (particularly B.1.617.2) variants that originated in India.
AMINO ACID SEQUENCE:	Arg 319 to Lys 537 with C-terminal polyhistidine tag



Immobilized Human CellExp™ SARS-CoV-2 Spike RBD (L452R, T478K), Recombinant at 1 µg/mL (100 µl/well) can bind Human ACE2 with a linear range of 0.2 to 3 ng/mL.

RELATED PRODUCTS:

- Human CellExp™ SARS-CoV-2 Spike RBD (K417N, E484K, N501Y) (Cat. No. P1645)
- Human CellExp™ SARS-CoV-2 Spike Protein RBD, Fc Tag, Recombinant (Cat. No. P1673)
- Human CellExp™ SARS-CoV-2 Spike RBD (N501Y), Recombinant (Cat. No. P1644)
- Human CellExp™ SARS-CoV-2 S1, Recombinant (Cat. No. P1666)
- Human CellExp™ ACE2, Human Recombinant (Cat. No. P1535)

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