

# Human CellExp™ SARS-CoV-2 Spike RBD (E484K)

01/21

<b>CATALOG NO:</b>	P1649-50 50 µg
<b>ALTERNATE NAMES:</b>	COVID-19 Spike RBD protein (E484K); 2019-nCoV Spike RBD protein (E484K); SARS-CoV-2 Mutant (E484K); SARS-CoV-2 (E484K) mutant protein
<b>MOL. WT.</b>	35 kDa
<b>ACCESSION NO:</b>	YP_009724390.1
<b>PURITY:</b>	≥ 90% by SDS-PAGE
<b>SOURCE:</b>	Hek293
<b>TAG:</b>	His Tag
<b>AMINO ACID SEQUENCE:</b>	The target protein SARS-CoV-2 S Protein RBD (E484K) is expressed with His tag at the C-terminus.
<b>FORM:</b>	Lyophilized protein
<b>FORMULATION:</b>	Lyophilized from PBS, pH 7.5
<b>RECONSTITUTION:</b>	Reconstitute in sterile water to a concentration of 1 mg/ml.
<b>STORAGE CONDITIONS:</b>	Store at -20 °C or -80 °C. After reconstitution, divide into small aliquots and store at -20 °C or -80 °C. Avoid repeated freeze-thaw cycles.
<b>DESCRIPTION:</b>	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 E484K mutant mildly increase receptor binding.

**RELATED PRODUCTS:**

Recombinant COVID-19 3C-like Proteinase (Cat. No. P1606)  
Human CellExp™ SARS-CoV-2 Spike RBD (N501Y), Recombinant (Cat. No. P1644)  
Human CellExp™ SARS-CoV-2 Spike RBD (K417N, E484K, N501Y) (Cat. No. P1645)  
Human CellExp™ Coronavirus Spike Protein (SARS-CoV-2; S1), Recombinant (P1524)  
Human CellExp™ SARS-CoV-2 Spike Protein (RBD), Recombinant (P1530)

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