SARS-CoV-2 Spike Protein Receptor Binding Domain, Recombinant

05/21

CATALOG NO: P1734-50 50 µg
P1734-100 100 µg

ALTERNATE NAMES: Spike glycoprotein RBD; S1 RBD

MOL. WT. 53 kDa

SOURCE: Mammalian Cells

PURITY: > 90% as determined by SDS-PAGE

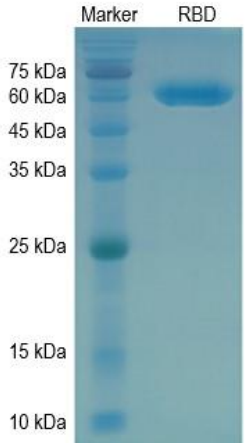
FORM: Lyophilized powder

FORMULATION: Lyophilized from PBS, pH 7.5

STORAGE CONDITIONS: Store lyophilized protein at -20 °C. Once reconstituted, aliquot and store at -20 °C or -80 °C. Avoid repeated freeze-thaw cycles.

DESCRIPTION: SARS-CoV is an enveloped, single and positive-stranded RNA virus. Cell entry of severe acute respiratory syndrome coronavirus (SARS-CoV) is mediated by the viral spike (S) protein. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. For viral entry, the surface unit (S1) of SARS S binds to the cellular receptor angiotensinconverting enzyme 2 (ACE2) and the transmembrane unit (S2) then fuses the viral membrane with a host cell membrane. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity, during infection with SARS-CoV. Because the S protein of SARS-CoV is involved in receptor recognition, as well as virus attachment and entry, it represents one of the most important targets for the development of SARS vaccines and therapeutics.

AMINO ACID SEQUENCE: Arg 319 to Phe 541 with C-terminal Fc Tag



2 µg of Recombinant SARS CoV-2 Spike Protein Receptor Binding Domain was loaded on SDS-PAGE under reducing conditions and stained with Coomassie blue. The protein migrates to around ~60 kDa.

RELATED PRODUCTS:

Human CellExp™ SARS-CoV-2 S1 Protein (L452R), Recombinant (Cat. No. P1662)
Human CellExp™ SARS-CoV-2 S1 (E484K), Recombinant (Cat. No. P1664)
Human CellExp™ SARS-CoV-2 S1 (N501Y), Recombinant (Cat. No. P1665)
Human CellExp™ SARS-CoV-2 S1, Recombinant (Cat. No. P1666)
Human CellExp™ SARS-CoV-2 S1 (K417N), Recombinant (Cat. No. P1663)

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