Catalog Number: 230-30213



## Recombinant SARS-CoV-2 S1 Subunit Protein RBD, R346K/E484K/N501Y mutant

**Source** 

Species SARS-CoV-2 Mu B.1.621 (Colombia)

Accession Number QHD43416

Gene Symbol S

Arg319-Phe541. R346K/E484K/N501Y mutant: amino acid Arg (R) at 346 position was mutated

**Expressed Region** to Lys (K), Glu (E) at 484 position was mutated to Lys (K), Asn (N) at 501 position was mutated

to Tyr (Y).

Synonyms Spike protein, S Protein, S1 Subunit, Host Cell Receptor Binding Domain (RBD)

**Preparation** 

Expression System Human embryonic kidney 293 (HEK293) cells

Tag C-terminal his-tag

Purification His-tag affinity purification by immobilized metal ion affinity chromatography (IMAC)

Purity >95%

Purity Determined By SDS-PAGE under reducing conditions and visualized by Coomassie blue staining

Recombinant protein product has a calculated molecular mass of ~25 kDa. Due to the abundant glycosylation, it migrates as approximately ~30 kDa protein bands in SDS-PAGE under DTT,

beta-mercaptoethanol reducing conditions. After deglycosylation under native and denature

conditions, the protein presented as one reduced ~25 kDa band.

**Protein Specifications** 

**Molecular Weight** 

Format Liquid

**Formulation** Supplied as a 0.2 um filtered solution in PBS (pH 7.4)

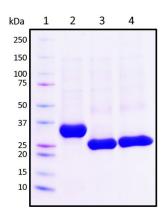
**Concentration** Lot specific (see the label on the vial), determined by BCA protein assay

Endotoxin Level 0.5 EU per µg of the protein as determined by the LAL method

Recommended Applications Functional Assay, Protein-protein Interaction, Post-translational Modifications, ELISA, EIA,

Western Blotting, Dot Blotting, Immunoprecipitation, Protein Array, etc.

(770) 729-2992



## **SDS-PAGE Image**

Figure 1. Deglycosylation analysis of purified recombinant proteins. The same amount of purified proteins were untreated (Lane 2) or treated with protein deglycosylation enzymes under native (Lane 3) or reducing (Lane 4) conditions. Deglycosylation treatment resulted in a mobility shift of the protein to produce one reduced band at the expected size, thus indicating that the untreated recombinant protein (Lane 2) was glycosylated.

Lane 1: Protein standard ladder (kDa).

Lane 2: Untreated protein

Lane 3: Treated protein with deglycosylation enzymes under native conditions.

Lane 4: Treated protein with deglycosylation enzymes under reducing conditions.

## **Shipping**

Ice packs

## Storage/Stability

Upon arrival, the protein may be stored for 2 weeks at 4 °C. For long term storage, it is recommended to store at -20 °C or -80 °C in appropriate aliquots. Avoid repeated freeze-thaw cycles.

This product is furnished for LABORATORY RESEARCH USE ONLY.

Not for diagnostic or therapeutic use.

