

Catalog Number: 230-30208


Recombinant SARS-CoV-2 S1 Subunit Protein RBD, L452R/T478K mutant**Source**

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| Species | SARS-CoV-2 Delta B.1.617.2 (India) |
| Accession Number | QHD43416 |
| Gene Symbol | S |
| Expressed Region | Arg319-Phe541. L452R/T478K: amino acid Leu (L) at 452 position was mutated to Arg (R), Thr (T) at 478 position was mutated to Lys (K). |
| Synonyms | Spike protein, S Protein, S1 Subunit, Host Cell Receptor Binding Domain (RBD) |

Preparation

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| 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 |
| Molecular Weight | 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

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| 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. |
| 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. |

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.