

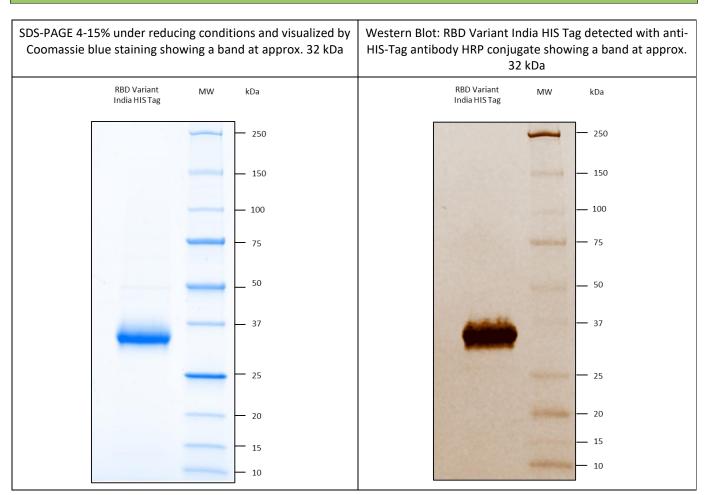
## **DESCRIPTION**

Description	Recombinant Human Coronavirus SARS-CoV-2 Spike Protein S1 subunit, Receptor-Binding Domain (RBD), variant Lineage B.1.617 (G/452.V3, India)
Sequence	Native NCBI Accession Number: MN908947
	Arg319-Phe541, with mutation L452R; E484Q
Expression system	HEK293 cells
Tag	HIS Tag C-Terminus
Purification	Affinity chromatography
Extinction coefficient	33850 M-1.cm-1 Abs 0.1% (=1 g/l) 1.30 assuming all pairs of Cys residues form cystines
Predicted Molecular Weight	26.1 kDa

## **SPECIFICATIONS**

SDS Page	Approx. 32 kDa
Concentration	1 mg/ml
Purity	>95% by SDS PAGE gel
Formulation	Liquid PBS
Activity	Not tested
Stability and Storage	Store at minimum -20°C. Avoid repeated freeze-thaw cycles

## $\mathsf{DATA}$







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Recombinant Human SARS-CoV-2 Spike RBD Variant Lineage B.1.617 (HEK)

Catalog number: 715-H24-0BU

## SARS-CoV-2 Spike Glycoprotein (S1) RBD variant Indian Lineage B.1.617

Spike protein (S protein) is one of the four structural proteins of Coronavirus (SARS-Cov, SARS-Cov-2, MERS amongst others), S protein plays the most important role in viral attachment, fusion and entry, and it serves as a target for development of antibodies, entry inhibitors and vaccines.

In the S protein, the Receptor Binding Domain (RBD) mediates viral entry of SARS-Cov and SARS-Cov-2 into host cells by its interaction with the membrane receptor ACE2 (Angiotensin-converting enzyme 2).

The variant lineage B.1617 of SARS-CoV-2 was first identified in India on October 2020 and at the end of March 2021 has shown a sustained spread across India, likely to be responsible for the third wave of COVID-19 in that region. Also detected since February 2021 in other countries (United Kingdom, United States, France, Canada...), this variant carries two important mutations – L452R and E484Q. These two mutations have been previously described in other SARS-CoV-2 variants and are known to confer immune escape and to increase infectivity. Nevertheless, this is the first time the two RBD mutations are detected on the same lineage of SAR-CoV-2 which is often referred to as a "double mutant".

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