Certificate of Analysis & Data Sheet

Catalog Number: 230-30210

Recombinant SARS-CoV-2 Spike S1 Subunit Protein (full length) with A222V Mutant

Source

Species	SARS-CoV-2 Delta B.1.617.2 (India)
Accession Number	QHD43416
Gene Symbol	S
Expressed Region	Val16-Gln690. A222V mutant: amino acid Ala (A) at 222 position was mutated to Val (V).
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	80%
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 75 kDa. Due to the abundant glycosylation, it migrates as approximately 120 kDa major protein band in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions.

Protein Specifications

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	Image not found or type unknown SDS-PAGE 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.