

Catalog Number: 230-30161

Recombinant SARS-CoV-2 S1 Subunit Protein (full length)**Source**

Species	SARS-CoV-2
Accession Number	QHD43416
Expressed Region	Val16 - Gln690
Synonyms	Spike protein, S Protein, S1 Subunit

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. See deglycosylation analysis image below.

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

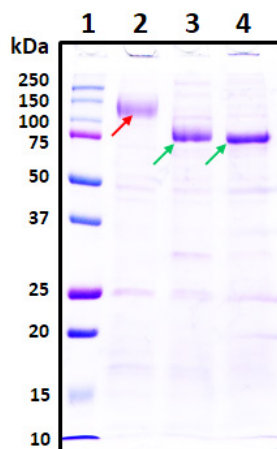
SDS-PAGE Image

Figure 1. Deglycosylation of purified recombinant proteins. Purified proteins were untreated (Lane 2) or treated with deglycosylation under native (Lane 3) or reducing (Lane 4) conditions. Deglycosylation treatment resulted in a mobility shift of the protein to produce one major band at the expected size (~75 kDa), thus indicating that the untreated recombinant protein (Lane 2, ~120 kDa) was glycosylated.

Lane 1: Protein standard ladder (kDa).

Lane 2: Untreated protein (~120 kDa, red arrow) under reducing conditions.

Lane 3: Treated protein (~75 kDa, green arrow) with deglycosylation enzymes under native conditions.

Lane 4: Treated protein (~75 kDa, green arrow) 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.