

Recombinant SARS-CoV-2 S1 Subunit Protein, CendR Domain with N-terminal His-tag

Recombinant SARS-CoV-2 S1 subunit protein, C-terminal CendR domain with an N-terminal His-tag, derived from the transfected human HEK293 cells.

CODE: 230-30179

Product Specifications

Size:	50 ug, 100 ug, or 500 ug
Format:	Liquid
Formulation:	Supplied as a 0.2 um filtered solution in PBS (pH 7.4)
Purification:	His-tag affinity purification by immobilized metal ion affinity chromatography (IMAC)
Concentration:	Lot specific (see the label on the vial), determined by BCA protein assay
Purity:	>95%
Endotoxin Level:	< 0.5 EU per µg of the protein as determined by the LAL method

Purity determined by:
SDS-PAGE under reducing conditions and visualized by Coomassie blue staining

Recommended

Applications:

Functional Assay, Protein-protein Interaction, Post-translational Modifications, ELISA, EIA, Western Blotting, Dot Blotting, Immunoprecipitation, Protein Array, etc.

Source

Gene Symbols:	S
Species:	SARS-CoV-2
Accession Number:	QHD43416
Expressed Region:	Asn542-Arg685
Protein Name & Synonyms:	Spike protein, S Protein, S1 Subunit, CendR Domain

Preparation

Expression System: Human embryonic kidney 293 (HEK293) cells

Conjugation/Tag: N-terminal his-tag

Molecular Weight (kDa):

Recombinant protein product has a calculated molecular mass of ~18 kDa. Due to the abundant glycosylation, it migrates as approximately ~25-35 kDa protein smear bands in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions. After deglycosylation under native and denature conditions, the protein presented as one reduced ~18 kDa band. See deglycosylation analysis image below.

SDS-PAGE Image

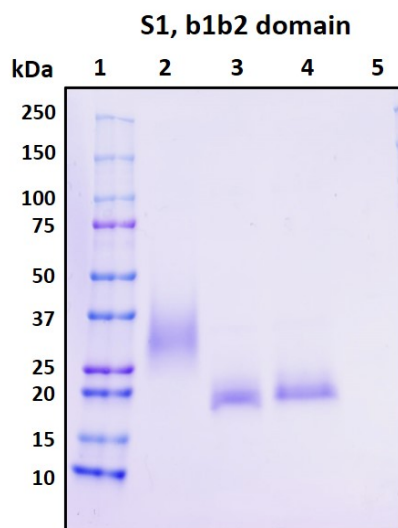


Figure 1. Deglycosylation analysis of purified recombinant proteins. The same amount of purified proteins were untreated (Lane 2) or treated with protein deglycosylation enzymes under native (Lane 3) or reducing (Lane 4) conditions. Deglycosylation treatment resulted in a mobility shift of the protein to produce one reduced band at the expected size (~70 kDa), thus indicating that the untreated recombinant protein (Lane 2, ~80 kDa) 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 denature conditions.

Lane 5: Deglycosylation enzymes only without target proteins.

Stability & Storage

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.

The products are furnished for LABORATORY RESEARCH USE ONLY. Not for diagnostic or therapeutic use.