

Recombinant SARS-CoV-2, S1 Subunit Protein (RBD), Biotinylated**Source**

Species	SARS-CoV-2
Accession Number	QHD43416
Expressed Region	Arg319-Phe541
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. The primary amino groups (-NH ₂) at the N-terminus and the side chains of lysine (K) residues were biotin-conjugated using the standard chemical labeling method.
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. 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
Recommended Applications	Lateral flow, indirect ELISA, sandwich ELISA, glycosylation analysis, binding assay, antibody generation, hybridoma screening, western blotting, biotin/dye/bead conjugation, binder selection, crystallization, and vaccine development.

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.