

## Product datasheet for **TP728092**

### SARS-CoV-2 Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant SARS-CoV-2 (2019-nCoV) S Protein RBD-SD1 (C-6His)
Species:	SARS-CoV-2
Expression cDNA Clone or AA Sequence:	Arg319-Ser591
Tag:	C-His
Buffer:	Supplied as a 0.2 $\mu$ M filtered solution of PBS, pH 7.4.
Note:	Recombinant SARS-CoV-2 (2019-nCoV) S Protein RBD-SD1 is produced by our Mammalian expression system and the target gene encoding Arg319-Ser591 is expressed with a 6His tag at the C-terminus.
Storage:	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Store at $\leq -70^{\circ}\text{C}$ , stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Stability:	12 months from date of despatch
Synonyms:	2019-nCoV RBD Protein; 2019-nCoV Spike RBD Protein
Summary:	Protein S (PROS1) is glycoprotein and expressed in many cell types supporting its reported involvement in multiple biological processes that include coagulation, apoptosis, cancer development and progression, and the innate immune response. Known receptors bind S1 are ACE2, angiotensin-converting enzyme 2, DPP4, CEACAM etc.. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. Most notable is severe acute respiratory syndrome (SARS). The severe acute respiratory syndrome-coronavirus (SARS-CoV) spike (S) glycoprotein alone can mediate the membrane fusion required for virus entry and cell fusion. It is also a major immunogen and a target for entry inhibitors. It's been reported that 2019-nCoV can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-anti- body and T-cell responses, as well as protective immunity


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