# Recombinant 2019-nCoV S Protein RBD-SD1 (C-mFC)

Catalog No: #AP89514

Package Size: #AP89514-1 50ug #AP89514-2 500ug #AP89514-3 1mg

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## Description

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| Product Name | Recombinant 2019-nCoV S Protein RBD-SD1 (C-mFC) |
| Brief Description | Recombinant Proteins |
| Purification | Greater than 95% as determined by reducing SDS-PAGE. |
| Other Names | 2019-nCov RBD Protein; 2019-nCoV Spike RBD Protein |
| Accession No. | Uniprot ID: QHD43416.1 |
| Calculated MW | 57kDa |
| Storage | Reconstituted protein solution should be stored at |

## Application Details

Expression Region: Recombinant 2019-nCoV S protein RBD Protein is produced by our Mammalian expression system and the target gene encoding Arg319-Pro589 is expressed with a mFC tag at the C-terminus.

Relevance: 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-antibody and T-cell responses, as well as protective immunity.

Storage Buffer: Supplied as a 0.2 μM filtered solution of PBS, pH 7.4

Note: This product is for in vitro research use only