

# Recombinant 2019-nCoV S1 Protein

Catalog No: #AP89516

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## Description

Product Name	Recombinant 2019-nCoV S1 Protein
Brief Description	Recombinant Proteins
Purification	Greater than 85% as determined by reducing SDS-PAGE.
Other Names	S1 protein; 2019-nCoV S1 protein; coronavirus S1 Protein; cov S1 Protein
Accession No.	Uniprot ID: QHD43416.1
Calculated MW	78.3kDa
Storage	Reconstituted protein solution should be stored at

## Application Details

**Expression Region:** Recombinant 2019-nCoV S1 Protein is produced by our Mammalian expression system and the target gene encoding Gln14-Arg685 is expressed.

**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 &mu;M filtered solution of PBS, pH 7.4

**Note:** This product is for in vitro research use only and is not intended for use in humans or animals.