

ATAGENIX LABORATORIES

Catalog Number:ATMP02496COV Recombinant 2019-nCoV S Protein NTD

Product Details

Summary

Product name Recombinant 2019-nCoV S Protein NTD

Catalog# ATMP02496COV

description Recombinant SARS-CoV-2 S Protein NTD is produced by Mammalian cells

expression system and the target gene encoding Ser13-Leu303 is expressed with

C-His Tag

Expression system Mammalian cells

Species Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)

Accession # P0DTC2

Alternative names S glycoprotein, S, Peplomer protein, Spike glycoprotein, E2

Predicted Molecular Mass 36.23KD

Purity >90% as determined by SDS-PAGE

Endotoxin level Please contact with the lab for this information

Formulation Supplied as solution form in PBS, pH7.5 or lyophilized from PBS, pH7.5

Shipping In general, proteins are shipped out with blue ice unless customers require

otherwise.

Stability &StorageUse a manual defrost freezer and avoid repeated freeze thaw cycles.

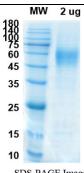
Store at 2 to 8 °C for one week .

Store at -20 to -80 °C for twelve months from the date of receipt.

Reconstitution Please refer to the instraction in the hard copy of COA.

Application Immunogen

SDS-PAGE image



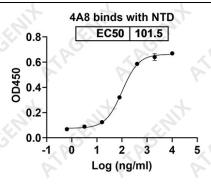
SDS-PAGE Image



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Bioactivity



Background

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.

Note

For research use only.