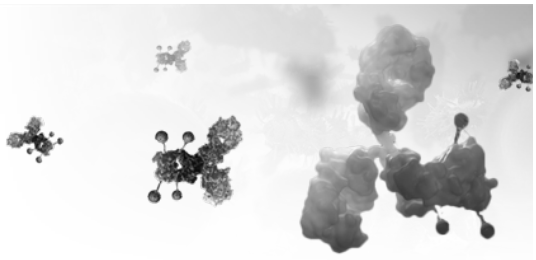

# SARS-CoV-2 Spike Peptide (N terminus) (DAGC315)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

| | |
|---|---|
| **Product Overview** | 16 amino acids near the amino terminus of SARS-CoV-2 (COVID-19, 2019-nCoV) Spike glycoprotein. |
| **Species** | SARS-CoV-2 |
| **Conjugate** | Unconjugated |
| **Applications** | SARS-CoV-2 Spike peptide is used for blocking the activity of the SARS-CoV-2 Spike antibody. |
| **Format** | Liquid |
| **Concentration** | 200 ug/mL |
| **Size** | 50 µg |
| **Buffer** | PBS pH 7.2 (10 mM NaH2PO4, 10 mM Na2HPO4, 130 mM NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide |
| **Preservative** | 0.02% sodium azide |
| **Storage** | Store SARS-CoV-2 Spike peptide at -20˚C, stable for one year. |

## BACKGROUND

| | |
|---|---|
| **Introduction** | 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. It's been reported that SARS-CoV-2 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 |

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

| | |
|---|---|
| | 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. The main functions for the Spike protein are summarized as: Mediate receptor binding and membrane fusion; Defines the range of the hosts and specificity of the virus; Main component to bind with the neutralizing antibody; Key target for vaccine design; Can be transmitted between different hosts through gene recombination or mutation of the receptor binding domain (RBD), leading to a higher mortality rate. |
| **Keywords** | SARS-CoV-2; SARS-CoV-2 Spike Peptide; SARS-CoV-2 Peptide; SARS-CoV-2 Spike; SARS-CoV-2 Spike Protein |

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221