

Recombinant Coronavirus Spike Protein, His-tagged

Cat. No. Spike-001S Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Coronavirus (SARS-CoV-2) Spike Protein composed of full length spike protein sequence of 1282 amino acids with a His tag was expressed in E. coli.

Species Coronavirus

Source E.coli

Description SARS-CoV is an enveloped, single and positive-stranded RNA virus. Cell entry of severe acute respiratory syndrome coronavirus (SARS-CoV) is mediated by the viral spike (S) protein. 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. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. For viral entry, the surface unit (S1) of SARS S binds to the cellular receptor angiotensin-converting enzyme 2 (ACE2) and the transmembrane unit (S2) then fuses the viral membrane with a host cell membrane. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity, during infection with SARS-CoV. Because the S protein of SARS-CoV is involved in receptor recognition, as well as virus attachment and entry, it represents one of the most important targets for the development of SARS vaccines and therapeutics.

Form Liquid

Molecular Mass 140 kDa

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Unit Definition	>90%
Usage	For Research Use Only! Not For Use in Humans.
Storage	Store at 2-8 centigrade for short Term (<2 weeks). Long Term: -20 centigrade. For long term storage, aliquot and store at -20 centigrade. Avoid repeated freezing and thawing.
Storage Buffer	In 10 mM Phosphate Buffered Saline, pH 7.4
Full Length	Full L.

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