ELK Biotechnology

Recombinant SARS-CoV-2 S-trimer Protein (C-6His)

Catalog #	EPT040
Expression Host	Human Cells
DESCRIPTION	Recombinant SARS-CoV-2 S-trimer Protein is produced by our Mammalian expression system and the target gene encoding Cys15-Gln1208 is expressed with a 6His tag at the C-terminus.
Accession	QHD43416.1
Synonyms	2019-nCov S protein; 2019-nCoV Spike glycoprotein; 2019-nCoV S glycoprotein
Mol Mass	136.6kDa
AP Mol Mass	170-220kDa, reducing conditions
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Endotoxin	
FORMULATION	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4
RECONSTITUTION	
SHIPPING	The product is shipped on dry ice pack.Upon receipt,

store it immediately at the temperature listed below.

STORAGE

Reconstituted protein solution should be stored at ≤ -20°C.

BACKGROUND

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.

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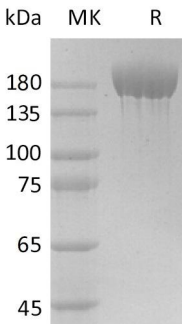

SDS-PAGE

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