

## Product datasheet for **TP724617**

### S Protein SARS-CoV-2 Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant SARS-CoV-2 Spike Protein (S1+S2 ECD) (C-His)
Species:	SARS-CoV-2
Expression cDNA Clone or AA Sequence:	15-1214
Tag:	C-8His
Buffer:	Supplied as a 0.2 um filtered solution of PBS, pH7.4
Note:	Recombinant SARS-CoV-2 Spike Protein is produced by Insect. The target gene encoding 15-1214 is expressed with a 8His tag at the C terminus.
Stability:	12 months from date of despatch
Locus ID:	43740568
Summary:	The SARS-CoV-2 Spike Protein is a glycoprotein expressed in various cell types, which may support its involvement in the innate immune response. Receptors that bind S1 include ACE2, DPP4, and CEACAM. The spike (S) glycoprotein is essential for binding the virus to the host cell during the infection process, as seen in severe acute respiratory syndrome (SARS). In SARS-CoV, the S glycoprotein alone facilitates membrane fusion for virus entry and cell fusion, making it a significant immunogen and entry inhibitor target. Reports show that the 2019-nCoV can infect human respiratory epithelial cells by interacting with the human ACE2 receptor. The spike protein is a type I transmembrane protein containing two subunits: S1 and S2. S1 includes the receptor-binding domain (RBD), which recognizes the cell surface receptor, and S2 includes basic elements needed for membrane fusion. The S protein is crucial in inducing neutralizing-antibody, T-cell responses, and providing protective immunity.



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