

## SARS-CoV-2 (2019-nCoV) Spike Protein (RBD) (hFc Tag)

### Basic information:

<b>Catalog No.:</b>	UDP9002-1	<b>Source:</b>	SARS-CoV-2 (2019-nCoV)
<b>Expression Host:</b>	HEK293 Cells	<b>Type:</b>	Recombinant protein
<b>Purity:</b>	> 95 % as determined by SDS-PAGE		

### Useful Information:

#### Construction:

A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) Spike Protein (RBD) was expressed with hFc-tag in C terminus.

#### Molecular Mass:

The RBD protein of SARS-CoV-2 (2019-nCoV) Spike Protein (RBD) consists of 441 amino acids.

#### Formulation:

Liquid in sterile PBS, pH7.4.

#### Biological Activity

N/A

#### Endotoxin:

N/A

#### Storage:

Recombinant proteins are provided as frozen liquid which are shipped with dry ice. Bulk packages can be provided as lyophilized powder which shipped with blue ice.

#### Reconstitution:

According to the application.

#### Description:

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.

#### Sequences:

RVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISNCVADYSVLYNSASFSTFKCYGVSPSTKLNLCFTN VYADSFV  
IRGDEV RQIAPGQTGKIADYNYKLPDDFTGCVIAWNSNNLDSKVGGNYNLYRLFRKSNLKPFRDISTEIQAGSTPCNG  
VEGFNCYFPLQSYGFQPTNGVGYQP YRVVLSFELLHAPATVCGPKKSTNDKTHTCPPCPAPELLGGPSVFLFPPKPKDTL  
MISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALP  
APIEKISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLT  
VDKSRWQQGNV FSCVMHEALHNHYTQKSLSLSPGK.

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