

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

Basic information:

Catalog No.:	UDP9002-4	Source:	SARS-CoV-2 (2019-nCoV)
Expression Host:	Insect Cells	Type:	Recombinant protein
Purity:	> 95 % as determined by SDS-PAGE		

Useful Information:

Construction:

A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) Spike Protein (RBD) was expressed.

Molecular Mass:

The RBD protein of SARS-CoV-2 (2019-nCoV) Spike Protein (RBD) consists of 214 amino acids.

Formulation:

Liquid in 20mM HEPES, 100mM NaCl, pH6.0

Biological Activity

Affinity constant (KD): 9.193×10^{-9} M, Association rate constant (ka): 3.288×10^6 /Ms, Dissociation rate constant (kd): 3.023×10^{-2} /s, Measured binding affinity with ACE2-His (UDP9005-2) by Biacore T200.

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:

RVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISNCVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFV
IRGDEVRQIAPGQTGKIADYNYKLPDDFTGCVIAWNSNNLDSKVGNGYNYLYRLFRKSNLKPFRDISTEIQAGSTPCNG
VEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSEFLLHAPATVCGPKKSTN.

Note:

This material is offered by Gene Universal for research, laboratory or further evaluation purposes. Not for human use. Made in China.