PRODUCT DATASHEET

Catalog No:	LTP-V009, 50ug	LTP-V009, 100µg
Pack Size	50 µg	100µg
Product Name:	2019 Coronavirus SARS-CoV-2 Spike S1 RBD Protein, human IgG1 Fc tag.	
Description:	Recombinant protein from the receptor-binding domain (RBD) of 2019 Spike S1 of Wuhan pneumonia virus SARS-CoV-2, polyhistidine tag.	
Species:	2019-nCoV, SARS-CoV-2	
Sequence:	The amino acid sequences of recombinant protein was derived from accession# YP_009724390.1	
Accession No.:	YP_009724390.1	
Tag:	C-terminal His-Tag	
Host:	Expressed and purified from in vitro cell culture of HEK293 cells.	
Applications:	Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies	
Purity:	>95% as determined by SDS-PAGE and Coomassie Blue staining.	

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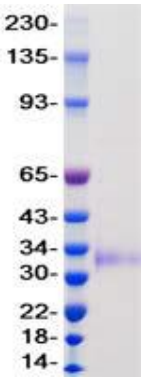
Predicted Molecular Mass:	 Predicted MW of this product is ~ 29.5 kDa. However, it runs higher in SDSPAGE under the reduced condition due to the post-translational modification in the recombinant expression.
Formulation:	Purified protein formulated in a sterile solution of PBS buffer, pH 7.2.
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (<1.0 EU/μg purified protein) (LAL test)
Shipping, Storage and Stability:	The product is shipped with dry ice. Upon receipt, unopened vial can be stored at -80°C for over 12 months. Avoid repeated freeze/thaw cycles. Also, the product can be aliquoted in the smaller size of working aliquots with the desired buffer and concentration and stored at or below -20°C stable for 3 to 4 weeks.

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Background:	The coronavirus Spike protein (S) is a large oligomeric transmembrane protein that mediates coronavirus entry into host cells. It contains S1 and S2 two subunits. Spike S1 mainly contains a receptor binding domain (RBD) that recognizes a variety of host cell surface receptors. S2 contains basic elements responsible for the membrane fusion. The coronavirus first binds to a receptor on the host cell surface through Spike S1 subunit, and then fuses viral and host membranes through Spike S2 subunit.

FOR RESEARCH LABORATORY TEST USE ONLY!

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