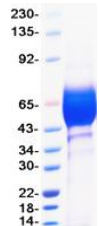


<b>Catalog No:</b>	<b>LT-V016</b>
<b>Product Name:</b>	Recombinant SARS-CoV-2 Spike NTD Protein
<b>Description:</b>	Recombinant protein of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) Spike N-Terminal Domain (NTD, V16-S305), with a polyhistidine tag at its C-terminus.
<b>Alias or Clone:</b>	2019-nCoV, COVID-19
<b>Source:</b>	Expressed and purified from <i>in vitro</i> cell culture of Human 293 cells
<b>Accession No.:</b>	NC_045512.2; YP_009724390.1; <b>Gene ID:</b> 43740568;
<b>Amino acid Sequence:</b>	The amino acid sequences of recombinant protein was derived from the V16-S305 region of accession# YP_009724390.1
<b>Purity:</b>	>90% by SDS-PAGE gel and Coomassie Blue staining
<b>SDS-PAGE &amp; Biological Activity:</b>	<p><i>Predicted MW of this product is ~39.6 kDa, however it runs higher than 40 kDa on the reduce SDS-PAGE due to a post-translational modification when expressing in mammalian cells</i></p> 
<b>Formulation:</b>	Protein formulated in a solution of PBS, pH7.2;
<b>Endotoxin:</b>	Endotoxin level is < 0.1 ng/μg of protein (<1 EU/μg)
<b>Shipping, Storage and Stability:</b>	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.
<b>Background:</b>	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 an N-terminal domain (NTD) and 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.