



## PRODUCT DATASHEET

<b>Catalog No:</b>	LT5578
<b>Pack Size</b>	1 mg
<b>Product Name:</b>	2019 Coronavirus SARS-CoV-2 surface Glycoprotein
<b>Description:</b>	<p>2019 Coronavirus SARS-CoV-2 Receptor Binding Motif is a synthetic peptide part of the receptor-binding domain (RBD). It is a critical determinant of virus-receptor interaction and thus of viral host range and tropism. The RBD also includes important viral-neutralizing epitopes (21–23), and it may be sufficient to raise a protective antibody response in inoculated animals.</p> <p>A total of nine cysteine residues are found in the RBD, six of which forming three pairs of disulfide bonds. Among these three pairs, two are in the core (Cys336-Cys361 and Cys379-Cys432) to help stabilize the beta sheet structure while the remaining one (Cys480-Cys488) connects loops in the distal end of the RBM.</p> <p>Studies showed that the sequence of 2019-nCoV coronavirus RBD, including its receptor -binding motif (RBM) that directly contacts ACE2 and uses ACE2 as its receptor with much higher affinity (10-20 times higher!) than SARS.</p>
<b>Species:</b>	2019-nCoV, SARS-CoV-2
<b>Peptide Sequence:</b>	SNNLDSKVG G NYNYLYRLFR KSNLKPFFERD ISTEIYQAGS TPCNGVEGFN CYFPLQSYGF QPTNGVGYQ
<b>Molecular Weight:</b>	8052.94 g/mol
<b>Modifications:</b>	N-Terminal: Biotin Labelling, Disulphide
<b>Formula:</b>	C361H528N96O109S3

<b>Bridge:</b>	Cys480-Cys488
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