

# Recombinant MERS-CoV S Protein (Glu11-Leu220), Tag Free tagged

**Cat. No.** S-5396M    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant MERS-CoV S/Spike glycoprotein (RBD) (Glu11-Leu220) without tag was expressed in Mammalian cells.
<b>Species</b>	MERS-CoV
<b>Source</b>	Mammalian Cells
<b>ProteinLength</b>	Glu11-Leu220
<b>Description</b>	<p>Spike protein S1: attaches the virion to the cell membrane by interacting with host receptor, initiating the infection.</p> <p>Spike protein S2: Acts as a viral fusion peptide which is unmasked following S2 cleavage occurring upon virus endocytosis.</p> <p>Spike protein S2: mediates fusion of the virion and cellular membranes by acting as a class I viral fusion protein. Under the current model, the protein has at least three conformational states: pre-fusion native state, pre-hairpin intermediate state, and post-fusion hairpin state. During viral and target cell membrane fusion, the coiled coil regions (heptad repeats) assume a trimer-of-hairpins structure, positioning the fusion peptide in close proximity to the C-terminal region of the ectodomain. The formation of this structure appears to drive apposition and subsequent fusion of viral and target cell membranes.</p>
<b>Form</b>	Lyophilized powder/frozen liquid

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<b>Molecular Mass</b>	25.51 kDa
<b>Purity</b>	>90% as determined by SDS-PAGE.
<b>Notes</b>	For research use only.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
<b>Storage Buffer</b>	Supplied as solution form in PBS pH 7.4.
<b>Reconstitution</b>	Reconstitute in sterile water for a stock solution.
<b>Shipping</b>	They are shipped out with dry ice/blue ice unless customers require otherwise.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">S spike protein [ Middle East respiratory syndrome-related coronavirus ]</a>
<b>Official Symbol</b>	<a href="#">S</a>
<b>Synonyms</b>	S; spike protein; surface glycoprotein
<b>Gene ID</b>	<a href="#">14254594</a>
<b>Protein Refseq</b>	<a href="#">YP_009047204</a>
<b>UniProt ID</b>	<a href="#">A0A499Q7I9</a>

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