

Recombinant MERS-CoV S Protein (Glu366-Asn602), C-His tagged

Cat. No. S-5395M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant MERS-CoV S/Spike glycoprotein (Glu366-Asn 602) fused with the C-terminal His tag was expressed in Mammalian cells.
Species	MERS-CoV
Source	Mammalian Cells
ProteinLength	Glu366-Asn602
Description	Spike protein S1: attaches the virion to the cell membrane by interacting with host receptor, initiating the infection. Spike protein S2: Acts as a viral fusion peptide which is unmasked following S2 cleavage occurring upon virus endocytosis. 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.
Form	Lyophilized powder/frozen liquid

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Molecular Mass	30.72 kDa
Purity	>90% as determined by SDS-PAGE.
Notes	For research use only.
Storage	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.
Storage Buffer	Supplied as solution form in PBS pH 7.4.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	S spike protein [Middle East respiratory syndrome-related coronavirus]
Official Symbol	S
Synonyms	S; spike protein; surface glycoprotein
Gene ID	14254594
Protein Refseq	YP_009047204
UniProt ID	A0A140AYZ5

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