

Recombinant MERS-CoV S Protein, His-tagged

Cat. No. S-016M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant MERS-CoV Spike S2 Subunit, fused to His-tag at C-terminus, was expressed in insect cell, and purified by using conventional chromatography techniques.
Species	MERS-CoV
Source	Insect cells
Description	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	Liquid
Molecular Mass	60.7kDa
AA Sequence	SVPGEMRLASIAFNHPIQVDQLNSSYFKLSIPTNFSFGVTQEYIQTTIQKVTVDCKQY VCNGFQKCEQLLREYGGQFCSKINQALHGANLRQDDSVRNLFASVKSSQSSPIIPGFG GDFNLTLLPEVSISTGSRSAIEDLLFDKVTIADPGYMQGYDDCMQQGPASARDL ICAQYVAGYKVLPLMDVNMEAAYTSSLLGSIAGVGWTAGLSSFAAIPFAQSIFYRLN

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GVGITQQVLSENQKLIANKFNQALGAMQTGFTTTNEAFQKVQDAVNNNAQALSKLA
 SELSNTFGAISASIGDIIQRLDVLEQDAQIDRLINGRLTTLNFAVAAQLVRSESAALSA
 QLAQDKVNECVKAQSKRSGFCGQGTHIVSFVFNAPNGLYFMHVGYYPSNHIEVVSA
 YGLCDAANPTNCIAPVNGYFIKTNNTRIVDEWSYTGSSFYAPEPITSLNTKYVAPQVT
 YQNISTNLPPPLLGNSTGIDFQDELDEFFKNVSTSIPNFGSLTQINTTLLDLTYEMLSL
 QQVVKALNESHYIDLKELGNYTYYNKWP

Endotoxin < 1 EU/μg of protein (determined by LAL method)

Purity > 85% by SDS-PAGE

Applications SDS-PAGE

Storage Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -95 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/mL (determined by Absorbance at 280nm)

Storage Buffer Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Official Symbol [S](#)

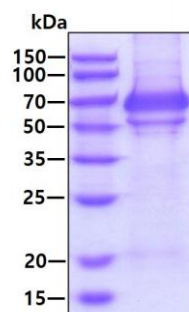
Synonyms Middle East respiratory syndrome coronavirus; Human betacoronavirus 2c EMC/2012; MERS-CoV; MERS; MERSCoV S2 P; Spike2 glycoprotein; S2 glycoprotein; S2; Spike S2 Subunit protein; S2 Subunit

UniProt ID [K0BRG7](#)

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SDS-PAGE

3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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