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- Trockeneiszuschlag
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- Expressversand

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PRODUCT INFORMATION

MERS-CoV Spike Glycoprotein RBD (Strain EMC/2012) (recombinant)

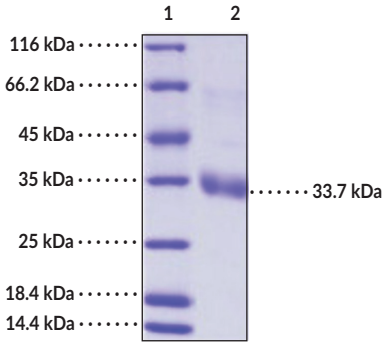
Item No. 40876

Overview and Properties

Synonyms:	MERS-CoV Spike Glycoprotein Receptor-Binding Domain, Middle East Respiratory Syndrome Coronavirus Spike Glycoprotein RBD, Middle East Respiratory Syndrome Coronavirus Spike Glycoprotein Receptor-Binding Domain
Source:	Recombinant MERS-CoV C-terminal His-tagged spike glycoprotein RBD expressed in insect cells
Amino Acids:	367-606
Uniprot No.:	K0BRG7
Molecular Weight:	27.7 kDa
Storage:	-80°C (as supplied)
Stability:	≥1 year
Purity:	≥90% as estimated by SDS-PAGE
Supplied in:	Lyophilized from sterile 20 mM Tris, 500 mM sodium chloride, 10% glycerol, pH 8.0
Endotoxin Testing:	< 1.0 EU/µg, determined by the LAL endotoxin assay
Protein Concentration:	***batch specific*** mg/ml

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Image



Lane 1: MW Markers
Lane 2: MERS-CoV Spike Glycoprotein RBD (Strain EMC/2012) (recombinant)

SDS-PAGE Analysis of MERS-CoV Spike Glycoprotein RBD (Strain EMC/2012) (recombinant). This protein has a calculated molecular weight of 27.7 kDa. It has an apparent molecular weight of approximately 33.7 kDa by SDS-PAGE under reducing conditions due to glycosylation.

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PRODUCT INFORMATION

Description

Middle East respiratory syndrome coronavirus (MERS-CoV) spike glycoprotein is a viral structural protein that contains the receptor-binding domain (RBD).[1] MERS-CoV is an enveloped positive-stranded RNA virus, a member of the *Betacoronavirus* genus, and the causative agent of MERS, an acute respiratory disease that often leads to pneumonia and renal failure.[1,2] The MERS-CoV spike glycoprotein mediates viral attachment to host cells and virus-cell-mediated membrane fusion during infection.[1] It is composed of an S1 subunit, which contains the RBD that binds to host dipeptidyl peptidase-4 (DPP-4), and an S2 subunit containing heptad repeat regions 1 and 2, which are responsible for membrane fusion, as well as a transmembrane domain and a cytoplasmic tail. The RBD of the MERS-CoV spike glycoprotein is one of the targets for neutralizing antibodies.[1] Cayman's MERS-CoV Spike Glycoprotein RBD (Strain EMC/2012) (recombinant) protein consists of 251 amino acids and has a calculated molecular weight of 27.7 kDa.

References

1. Du, L., Yang, Y., Zhou, Y., *et al.* MERS-CoV spike protein: A key target for antivirals. *Expert Opin. Ther. Targets* **21(2),** 131-143 (2017).
2. Rabaan, A.A., Al-Ahmed, S.H., Haque, S., *et al.* SARS-CoV-2, SARS-CoV, and MERS-CoV: A comparative overview. *Infez. Med.* **28(2),** 174-184 (2020).

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