

# SARS-CoV-RBD-(TEV-Fc-AVI)C w/o-Biotin

Catalog S012

Lot 4226

product specification sheet: PS-S012



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## Product description

This product contains the receptor binding domain (RBD) of the spike glycoprotein protein (S-protein) of the SARS-CoV corona virus (2002). Infection with this virus causes severe acute respiratory syndrome. The spike protein is the common target for neutralizing antibodies and vaccines. The Spike protein contains two subunits, S1 and S2. Subunit S1 contains a receptor binding domain (RBD), which is responsible for recognizing and binding with the cell surface receptor ACE-2 (products A004 and A005). S2 subunit contains other basic elements needed for the membrane fusion and trimerisation.

Concentration: 1.99 mg/ml  
19,1µM  
(based on the dimeric stoichiometry)

Volume: 55 µl

Quantity: 110 µg

Label:

S012 SARS-CoV-RBD-(TEV-Fc-AVI)C\_w/o-Biotin

1.99 mg/ml in PBS

project 2020\_038, Batch 4226

The protein is produced in HEK293 cells and contains a C-terminal, TEV-protease cleavable Fc-AVI-tag, which can be used for *in vitro* site-specific biotinylation, using the BirA enzyme. It was purified to homogeneity (figure 1). The calculated molecular weight of recombinant SARS-CoV-RBD-(TEV-Fc-AVI)C is 104 kDa.

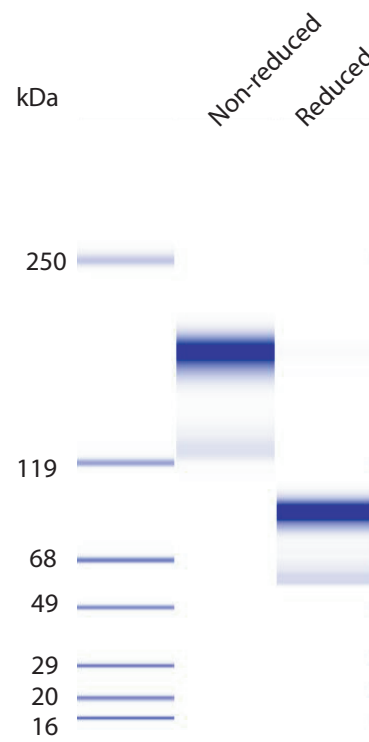


Figure 1. LabChip analysis of SARS-CoV-RBD-(TEV-Fc-AVI)C w/o-Biotin

## Protein Sequence

gsnitnlcpfgevfnatkfsvyawerkkisncvadysvlynstffstfkcygvsatklnldlcsnvyadsfvvkgddvrqiapgqgtviadynyklpddfmgcvlawntrnidatstgnynykyrylrhglrpferrdisnvpfspdgkpcppalncywplndygyfytgigypyrvvvlsfellnapatvcgpkaaaenlyfqssepkscdkthtppcpapellggpsvflfppkpkdtlmisrtpevtcvvvdvshedpevkfnwyvdgvevhnaatkpreeqynstyrvsvltvlhqdwlngkeykckvsnkalpapiektiskakgqprepqvylppsrdeltknqvsltlcvkgfypsdiaewesngqpennykttppvlidsdgsfflysklvtvdksrwqqgnvfscvmhealhnhytqklsllspgkgaaglnidifeaqkiewhegk\*

## Use, storage and stability

The product should be stored at - 80 °C (stable for at least 1 year). The buffer contains PBS without preservative. After thawing it should be stored in appropriate small aliquots at - 20 °C or - 80 °C (stable for at least 2 months).

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The product is not for use in humans

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The product can not be used in any commercial activity (commercial use includes, but is not limited to R&D activities for third parties)

The product can not be resold.

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