

Data Sheet

Spike S1, Fc Fusion, Avi-tag, Biotin-labeled (SARS-CoV-2)

SARS-CoV-2, Recombinant, C-terminal
Fc-Avi-tag, Biotin-labeled

Catalog #: AMS.100720

Lot #: 200423

Conc: 1.02 mg/ml

Formulated in: 8 mM Phosphate, pH 7.4,
110 mM NaCl, 2.2 mM KCl, and 20%
glycerol.

Stability: At least 6 months at -80°C. Avoid
freeze/thaw cycles.

References:

1. Hoffman, M. *et al.*, *Cell*. 2020 Apr;
181:1-10.
2. Walls, A. C. *et al.*, *Cell*. 2020 Mar;
180:1-12

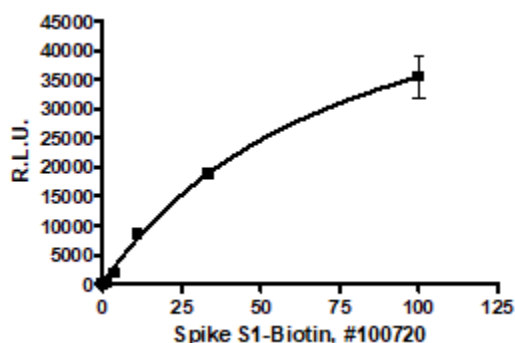
Description: Severe acute respiratory
Coronavirus 2 Spike Glycoprotein S1 (SARS-CoV-
2 Spike S1), GenBank Accession No.
QHD43416.1, a.a. 16-685, fused at the C-terminus
of the Fc portion of human IgG1, with a C-terminal
Avi-tag™, expressed in a HEK293 expression
system enzymatically biotinylated using Avi-tag™
technology. Biotinylation is confirmed to be ≥90%.
MW=104 kDa. This protein runs at a higher
molecular weight due to glycosylation.

Assay Conditions: SARS-CoV-2 S1
(#100720) and ACE2 binding assay was
done using ACE2:SARS-CoV-2 Spike Inhibitor
Screening Assay Kit (#79936). SARS-CoV-2
S1 (#100720) protein and Streptavidin-HRP
were used instead of SARS-CoV-2 Spike protein
(RBD) and anti-mouse Fc-HRP respectively.

Applications: Useful for the study of enzyme
kinetics, screening inhibitors, and selectivity
profiling.

Quality Assurance

ACE2:SARS-CoV-2 Inhibition



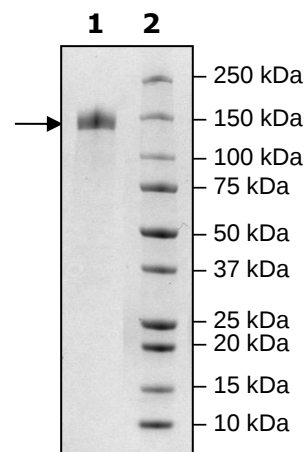
4-20% SDS-PAGE Coomassie staining

Lane 1:
4µg SARS-CoV-2 S1

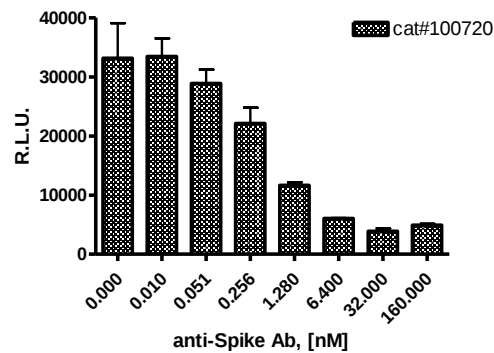
Lane 2:
Protein Marker

MW: 104kDa

Purity: ≥90%



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SARS-CoV-2 S1(#100720, 20 nM) was incubated with various concentrations of the anti-Spike Ab for 1 hour at room temperature. After then, S1/Abmixture was added to the plate coated with ACE2 as described in the assay kit (#79936). Streptavidin-HRP were used to measure SARS-CoV-2-S1/ACE2 binding.

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