Recombinant SARS-CoV-2 Spike-S2 (insect cells)

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1. Description

Products Recombinant SARS-CoV-2 Spike-S2 (insect cells) or Recombinant SARS-CoV-2 Spike-S2 (insect cells)-Biotin.

Productname	Content	Order no.
Recombinant SARS-CoV-2 Spike-S2 (insect cells)	10 µg	130-127-687
Recombinant SARS-CoV-2 Spike-S2 (insect cells)	50 µg	130-127-686
Recombinant SARS-CoV-2 Spike-S2 (insect cells)-Biotin	25 µg	130-127-688

Functional testing Binding of biotinylated Recombinant SARS-CoV-2 Spike-S2 (insect cells) to a SARS-CoV-2 Spike-S2–specific antibody by ELISA.

Primary structure Recombinant SARS-CoV-2 Spike-S2 (insect cells):
Single, glycosylated polypeptide chain (560 amino acid residues) without N-terminal methionine. C-terminal His-tag and AviTag™.

Recombinant SARS-CoV-2 Spike-S2 (insect cells)-Biotin:
Monobiotinylated glycosylated polypeptide chain (560 amino acid residues) without N-terminal methionine. C-terminal His-tag and AviTag.

Molecular mass 61.2 kDa.

Source Produced in SF9 cells.

Product format Lyophilized from a filtered (0.2 µm) buffer solution.

Stabilizer Mannitol and trehalose.

Purity >90% as determined by SDS-PAGE analysis.

Endotoxin level Low endotoxin (<0.1 EU/µg protein) as determined by Limulus Amebocyte Lysate (LAL) assay.

Storage Lyophilized Recombinant SARS-CoV-2 Spike-S2 (insect cells) should be stored at –20 °C. The expiration date is indicated on the vial label. Upon reconstitution aliquots should be stored at –20 °C or below. Avoid repeated freeze-thaw cycles.

Reconstitution It is recommended to reconstitute lyophilized Recombinant SARS-CoV-2 Spike-S2 (insect cells) with deionized, sterile-filtered water to a final concentration of 0.02–0.5 mg/mL in a minimal volume of 100 µL.

1.1 Background information

The SARS-CoV-2 Spike-S2 protein (spike glycoprotein subunit 2) is localized at the C-terminus of the spike protein and mediates membrane penetration and virus–cell fusion through the presence of so called heptad repeats. The Recombinant SARS-CoV-2 Spike-S2 (insect cells) protein covers amino acids S686 to K1211 and contains the stabilizing proline substitutions at position K986P and V987P. The protein is extended at its C-terminus with a His-tag and an AviTag.
Recombinant SARS-CoV-2 Spike-S2 (insect cells)-Biotin is specifically biotinylated at a single site, preserving full functionality of the protein.

1.2 Applications

The product can be used for a variety of applications, including:

- Analysis of SARS-CoV-2 immune responses
- Detection and characterization of SARS-CoV-2–specific antibodies
- Studying SARS-CoV-2 cell binding, infection, and viral life cycle

The optimal concentration for a specific application should be determined by a dose-response experiment.

Refer to www.miltenyibiotec.com for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com/local to find your nearest Miltenyi Biotec contact.

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