SARS-CoV-2 Envelope H2

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1. Description

Products SARS-CoV-2 Envelope H2 or
SARS-CoV-2 Envelope H2-Biotin.

Productname	Content	Order no.
SARS-CoV-2 Envelope H2	100 µg	130-127-450
SARS-CoV-2 Envelope H2-Biotin	100 µg	130-127-452

Primary structure SARS-CoV-2 Envelope H2:
Single polypeptide chain (21 amino acid residues).

SARS-CoV-2 Envelope H2-Biotin:
Monobiotinylated polypeptide chain (23 amino acid residues).

Molecular mass SARS-CoV-2 Envelope H2: 2.5 kDa.

SARS-CoV-2 Envelope H2-Biotin: 2.9 kDa.

Product format Lyophilized peptide containing stabilizer.

Stabilizer Mannitol.

Purity >90% as determined by HPLC analysis.

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

Storage Lyophilized SARS-CoV-2 Envelope H2 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 SARS-CoV-2 Envelope H2 with 10% DMSO to a final concentration of 0.2 mg/mL in a volume of 500 µL.

1.1 Background information

The envelope protein (also known as Envelope small membrane protein) is localized on the surface of the virus and represents one of the most relevant structural proteins of SARS-CoV-2. It acts as a viroporin and is involved in virus morphogenesis, assembly and pathogenesis. Based on previous structural studies of highly similar envelope proteins from other coronaviruses and homology studies, it is assumed that the envelope protein forms a pentameric structure when integrated into the membrane of SARS-CoV-2. The synthetic SARS-CoV-2 Envelope H2 covers amino acids S55 to 75V. The SARS-CoV-2 Envelope H2-Biotin protein is specifically biotinylated at a single site.

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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