SARS-CoV-2 Envelope C-term

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1. Description

Products SARS-CoV-2 Envelope C-term or
SARS-CoV-2 Envelope C-term-Biotin.

Productname	Content	Order no.
SARS-CoV-2 Envelope C-term	100 µg	130-127-446
SARS-CoV-2 Envelope C-term-Biotin	100 µg	130-127-451

Primary structure SARS-CoV-2 Envelope C-term:
Single polypeptide chain (42 amino acid residues).

SARS-CoV-2 Envelope C-term-Biotin:
Monobiotinylated polypeptide chain (44 amino acid residues).

Molecular mass SARS-CoV-2 Envelope C-term: 4.7 kDa.

SARS-CoV-2 Envelope C-term-Biotin: 5.2 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 C-term 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 C-term with 10% ethanol in water (v/v) 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 C-term covers amino acids L34 to 75V. The SARS-CoV-2 Envelope C-term-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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