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SARS-CoV-2 Envelope Peptide (MYSFVSEETGTLIVN)

Coronavirus Peptide
Catalog # VGP1161

Specification

SARS-CoV-2 Envelope Peptide (MYSFVSEETGTLIVN) - Product Information

Sequence	**MYSFVSEETGTLIVN**
Purity	
>90% (HPLC-MS)	
Application	**Cellular immune response, T-cell expansion, Antigen specific T-cell stimulation, Immune monitoring, T-cell assays**
Primary Accession	P0DTC4

SARS-CoV-2 Envelope Peptide (MYSFVSEETGTLIVN) - Additional Information

Gene ID	**43740570**

Other Names
Envelope small membrane protein, E protein, sM protein

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SARS-CoV-2 Envelope Peptide (MYSFVSEETGTLIVN) - Images

SARS-CoV-2 Envelope Peptide (MYSFVSEETGTLIVN) - Background

SARS-CoV-2 is part of the Coronaviridae family, whose members are named after their crown-like appearance under the electron microscope caused by the surface glycoproteins that decorate the virus. Coronaviruses have a large (30+ kb) single-stranded positivesense RNA genome encoding for several open reading frames. SARS-COV-2 Envelope protein is the smallest of the major viral structural proteins. During the viral replication cycle, E is abundantly expressed inside the infected cell, but only a small fraction incorporates into the virion envelope , while the majority establishes residence at the site of intracellular trafficking, where it participates in CoV assembly and budding . Recombinant CoVs lacking E exhibit significantly reduced viral titres, disabled viral maturation, or yield incompetent daughter virions, demonstrating the key role the Envleope protein plays in virus production and maturation .