

**SARS-CoV-2 Envelope Peptide (LAFVVFLLVTLAILT)**  
**Coronavirus Peptide**  
**Catalog # VGP1163**

**Specification**

---

**SARS-CoV-2 Envelope Peptide (LAFVVFLLVTLAILT) - Product Information**

Sequence	LAFVVFLLVTLAILT
<b>Purity</b> >90% (HPLC-MS)	
Application	Cellular immune response, T-cell expansion, Antigen specific T-cell stimulation, Immune monitoring, T-cell assays
Primary Accession	<a href="#">P0DTC4</a>

**SARS-CoV-2 Envelope Peptide (LAFVVFLLVTLAILT) - Additional Information**

Gene ID	43740570
<b>Other Names</b>	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 (LAFVVFLLVTLAILT) - Images**

**SARS-CoV-2 Envelope Peptide (LAFVVFLLVTLAILT) - 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 Envelope protein plays in virus production and maturation.