

**SARS-CoV-2 ORF3a Peptide (LPFGWLIVGVALLAV)**  
Coronavirus Peptide  
Catalog # VGP1132**Specification**

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**SARS-CoV-2 ORF3a Peptide (LPFGWLIVGVALLAV) - Product Information**

Sequence	LPFGWLIVGVALLAV
<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="#">P0DTC3</a>

**SARS-CoV-2 ORF3a Peptide (LPFGWLIVGVALLAV) - Additional Information**

Gene ID	43740569
<b>Other Names</b>	ORF3a protein, Accessory protein 3a, Protein 3a, Protein U274, Protein X1

**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 ORF3a Peptide (LPFGWLIVGVALLAV) - Images****SARS-CoV-2 ORF3a Peptide (LPFGWLIVGVALLAV) - Background**

SARS-CoV-2 infection induces a storm of cytokines in later stages of progression. The viral protein ORF3a activates the NLRP3 inflammasome via promotion of TNF receptor-associated factor 3 (TRAF3)-mediated ubiquitination of apoptosis-associated speck-like protein containing a caspase recruitment domain (ASC). ORF3a protein activates pro-IL-1 $\beta$  gene transcription and protein maturation, two signals essential to activation of the NLRP3 inflammasome.