

# SARS-CoV-2 (Envelope Protein) Peptide Pool



## SARS-CoV-2 (envelope protein) peptide pool for immune cell activation

Catalog #100-0666

~25 µg/peptide

Scientists Helping Scientists™ | [www.stemcell.com](http://www.stemcell.com)

TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

[INFO@STEMCELL.COM](mailto:INFO@STEMCELL.COM) • [TECHSUPPORT@STEMCELL.COM](mailto:TECHSUPPORT@STEMCELL.COM)

FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE

## Product Description

The SARS-CoV-2 (Envelope Protein) Peptide Pool is a lyophilized mixture of 16 peptides from envelope small membrane protein of SARS-CoV-2. Envelope protein is a single-spanning membrane protein that forms a viral ion channel, and plays a role in the viral morphology and assembly (Liu et al.). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 75 on envelope protein.

## Product Information

Number of Peptides:	16
Source:	SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2)
Protein ID:	PODTC4 (Swiss-Prot)
Protein Name:	Envelope small membrane protein; E protein; VEMP
Protein Sequence:	MYSFVSEETGLIVNSVLLFLAFVFLVLTALRLCAAYCCNIVNLSLVKPSFYVYSRVKLNLSRVPDLLV
Gene Name:	VEMP; E
Purity:	Average 70%
Formulation:	Lyophilized as trifluoroacetate salts

## Preparation and Storage

Storage:	Store at -20°C.
Stability:	Stable as supplied until expiry date (EXP) on label.
Preparation:	Warm to room temperature (15 - 25°C) before reconstitution. Add pure dimethyl sulfoxide (DMSO; ~40 µL) and dilute with water to the desired concentration. Final concentration of DMSO must be below 1% (v/v) to avoid toxicity in the biological system. If not used immediately, aliquot and store at -20°C. Protect from light. After thawing aliquots, do not re-freeze.

## Related Products

For a complete list of peptide pools, as well as related products available from STEMCELL Technologies, visit [www.stemcell.com](http://www.stemcell.com) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

## References

Liu J et al. (2010) The membrane protein of severe acute respiratory syndrome coronavirus acts as a dominant immunogen revealed by a clustering region of novel functionally and structurally defined cytotoxic T-lymphocyte epitopes. *J Infect Dis* 202(8): 1171–80.

PRODUCTS ARE FOR RESEARCH USE ONLY AND NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES UNLESS OTHERWISE STATED.

Copyright © 2021 by STEMCELL Technologies Inc. All rights reserved including graphics and images. STEMCELL Technologies & Design, STEMCELL Shield Design, and Scientists Helping Scientists are trademarks of STEMCELL Technologies Canada Inc. All other trademarks are the property of their respective holders. While STEMCELL has made all reasonable efforts to ensure that the information provided by STEMCELL and its suppliers is correct, it makes no warranties or representations as to the accuracy or completeness of such information.