

# HPV16 (L2) Peptide Pool

## Human papillomavirus 16 (L2) peptide pool for immune cell activation

Catalog #100-1393

~25 µg (15 nmol)/peptide



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## Product Description

HPV16 (L2) Peptide Pool is a lyophilized mixture of 116 peptides from minor capsid protein L2 of human papillomavirus type 16 (HPV16). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 473 on L2. L2 contains multiple nuclear localization signals (Darshan et al.; Mamoor et al.) and enters the nuclei of host cells via several import pathways mediated by Kap $\alpha$ 2 $\beta$ 1 heterodimers, Kap $\beta$ 2, and Kap $\beta$ 3 (Darshan et al.). One unit of this product (i.e. 25 µg/peptide) is sufficient for stimulating  $2.5 \times 10^8$  cells.

### APPLICATIONS

- Antigen-specific T cell stimulation
- Immune monitoring
- T cell assays
- T cell expansion

## Product Information

Number of Peptides:	116
Source:	Human papillomavirus type 16
Accession Number:	P03107
Protein Name:	Minor capsid protein L2
Protein Sequence:	MRHKRS AKRTKRASATQLYKTCKQAGTCPPDIIPKVEGKTIAEQILQYGSMGVFFGGLGIGTGSGTGGRTGYIPLG TRPPTATDTLAPVRPPLTVDPVGPSPDSIVSLVEETSFIDAGAPTSVPSIPPDVSGFSITTSTDTTPAILDINNVTVTTH NNPTFTDPSVLQPPTPAETGGHFTLSSTISTHNYEEIPMDTFIVSTNPNTVTSSTPIPGSRPVARLGLYSRTTQQVKV VDPAFVTTPTKLITYDNPAIEGIDVDNTLYFSSNDNSINIAPDPDFLDIVALHRPALTSRRTGI RYSRIGNKQTLRTRSG KSI GAKVHYYYDLSTIDPAEEIELQTITPSTYTTTSHAASPTSINNGLYDIYADDFITDTSTTPVPSVPSTSLSGYIPANTT IPFGGAYNIPLVSGPDIPINITDQAPSLIPVPGSPQYTIADAGDFYLHPSYYMLR KRRKRLPYFFSDVSLAA
Gene Name:	L2
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. Avoid repeated freeze-thaw cycles.

## 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

Darshan MS et al. (2004) The L2 minor capsid protein of human papillomavirus type 16 interacts with a network of nuclear import receptors. *J Virol* 78(22): 12179–88.

Mamoor S et al. (2012) The high risk HPV16 L2 minor capsid protein has multiple transport signals that mediate its nucleocytoplasmic traffic. *Virology* 422(2): 413–24.

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