

HPV18 (L2) Peptide Pool

Human papillomavirus 18 (L2) peptide pool for immune cell activation

Catalog #100-1397

~25 µg (15 nmol)/peptide



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Product Description

HPV18 (L2) Peptide Pool is a lyophilized mixture of 113 peptides from minor capsid protein L2 of human papillomavirus type 18 (HPV18). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 462 on L2. L2 contains two nuclear localization signals and may enter the nuclei of host cells via several import pathways mediated by Kap $\alpha\beta$ 1 heterodimers, Kap β 2, and Kap β (Klucevsek et al.). L2 can assemble into virus-like particles and may have a role in encapsidation (Stauffer et al.). One unit of this product (i.e. 25 µg/peptide) is sufficient for stimulating 2.5×10^8 cells.

APPLICATIONS

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

Product Information

Number of Peptides:	113
Source:	Human papillomavirus type 18
Accession Number:	P06793
Protein Name:	Minor capsid protein L2
Protein Sequence:	MVSHRAARRKRASVTDLYKTCKQSGTCPPDVVPKVEGTTLADKILQWSSLGIFLGGLGIGTGSGTGGRGTGYIPLGG RSNTVVDVGTPTRPPVIEPVGPTDPSIVTLIEDSSVVTSGAPRPTFTGTSGFDITSAGTTTPAVLDITPSSTSVSISTTNFT NPAFSDPSIIEVPQTGEVAGNVFVGTPSTGTHGYEEIPLQTFASSGTGEEPISTPLPTVRRVAGPRLYSRAYQQVSV NPEFLTRPSSLITYDNPAFEPVDTTLTDFPRSDVPDSDFMDIIRLHRPALTSTRRGTVRFSRLGQRATMFTRSGTQIGAR VHFYHDISPIAPSPYIELQPLVSATEDNDLFDIYADDMDPAVPVPSRSTTSFAFFKYSPTISSASSYSNVTVPLTSSWD VPVYTGPDITLPSTTSVWPIVSPTAPASTQYIGIHGTHYYLWPLYFIPKKRKRVPYFFADGFVAA
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, or contact us at techsupport@stemcell.com.

References

Klucevsek K et al. (2006) Nuclear import strategies of high-risk HPV18 L2 minor capsid protein. *Virology* 352(1): 200–8.

Stauffer Y et al. (1998) Infectious human papillomavirus type 18 pseudovirions. *J Mol Biol* 283(3): 529–36.

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