HPV16 (E6) Peptide Pool

Human papillomavirus 16 (E6) peptide pool for immune cell activation

Catalog #100-1395 ~25 µg (15 nmol)/peptide

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Product Description

HPV16 (E6) Peptide Pool is a lyophilized mixture of 37 peptides from the E6 protein of human papillomavirus type 16 (HPV16). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 158 on protein E6. E6 binds to the tumor suppressor protein p53 and stimulates its degradation (Scheffner et al; Werness et al.), which is thought to cause an increase in spontaneous mutagenesis in host cells (Havre et al.). E6 together with E7 demonstrated the ability to immortalize human keratinocytes in vitro, which likely has significance for HPVs oncogenic potential (Hawley-Nelson et al.). One unit of this product (i.e. 25 µg/peptide) is sufficient for stimulating 2.5 x 10^8 cells.

APPLICATIONS

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

Product Information

Number of Peptides:	37
Source:	Human papillomavirus type 16
Accession Number:	P03126
Protein Name:	E6
Protein Sequence:	MHQKRTAMFQDPQERPRKLPQLCTELQTTIHDIILECVYCKQQLLRREVYDFAFRDLCIVYRDGNPYAVCDKCLKF YSKISEYRHYCYSLYGTTLEQQYNKPLCDLLIRCINCQKPLCPEEKQRHLDKKQRFHNIRGRWTGRCMSCCRSSRT RRETQL
Gene Name:	E6
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

Havre PA et al. (1995) p53 inactivation by HPV16 E6 results in increased mutagenesis in human cells. Cancer Res 55(19): 4420–4.

Hawley-Nelson P et al. (1989) HPV16 E6 and E7 proteins cooperate to immortalize human foreskin keratinocytes. EMBO J 8(12): 3905–10.

Scheffner M et al. (1990) The E6 oncoprotein encoded by human papillomavirus types 16 and 18 promotes the degradation of p53. Cell 63(6): 1129–36.

Werness BA et al. (1990) Association of human papillomavirus types 16 and 18 E6 proteins with p53. Science 248(4951): 76–9.