

**E7 (43 - 77), HPV Oncoprotein**  
**Synthetic Peptide**  
**Catalog # SP2257b****Specification**

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**E7 (43 - 77), HPV Oncoprotein - Product Information**Primary Accession  
Sequence[P03129](#)  
**NH2-GQAEPDRAHYNIVTFCKCDSTLRLCVQS**  
**THVDIR-COOH****E7 (43 - 77), HPV Oncoprotein - Additional Information****Gene ID** 1489079**Other Names**  
Protein E7, E7**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.

**E7 (43 - 77), HPV Oncoprotein - Protein Information****Name** E7 {ECO:0000255|HAMAP-Rule:MF\_04004}**Function**

Plays a role in viral genome replication by driving entry of quiescent cells into the cell cycle. Stimulation of progression from G1 to S phase allows the virus to efficiently use the cellular DNA replicating machinery to achieve viral genome replication. E7 protein has both transforming and trans-activating activities. Induces the disassembly of the E2F1 transcription factor from RB1, with subsequent transcriptional activation of E2F1-regulated S-phase genes. Interferes with host histone deacetylation mediated by HDAC1 and HDAC2, leading to transcription activation. Also plays a role in the inhibition of both antiviral and antiproliferative functions of host interferon alpha. Interaction with host TMEM173/STING impairs the ability of TMEM173/STING to sense cytosolic DNA and promote the production of type I interferon (IFN-alpha and IFN-beta).

**Cellular Location**

Host cytoplasm {ECO:0000255|HAMAP-Rule:MF\_04004, ECO:0000269|PubMed:18996550, ECO:0000269|PubMed:3033296}. Host nucleus {ECO:0000255|HAMAP-Rule:MF\_04004, ECO:0000269|PubMed:18996550} Note=Predominantly found in the host nucleus. {ECO:0000255|HAMAP-Rule:MF\_04004, ECO:0000269|PubMed:18996550}

**E7 (43 - 77), HPV Oncoprotein - Images**