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

## Specification

### E7 (43 - 77), HPV Oncoprotein - Product Information

| | |
|---|---|
| Primary Accession | P03129 |
| Sequence | **NH2-GQAEPDRAHYNIVTFCCKCDSTLRLCVQS 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}

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