

# E7 (43 - 77), HPV Oncoprotein

Synthetic Peptide Catalog # SP2257a

# **Specification**

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

**Primary Accession** 

Sequence

P03129

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

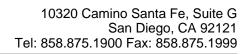
Name E7 {ECO:0000255|HAMAP-Rule:MF 04004}

### **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**

 $\label{lossym} $$ Host \ cytoplasm \{ECO:0000255|HAMAP-Rule:MF_04004, \ ECO:0000269|PubMed:18996550, \ ECO:0000269|PubMed:3033296\}. \ Host \ nucleus \{ECO:0000255|HAMAP-Rule:MF_04004, \ ECO:0000269|PubMed:18996550\} \ Note=Predominantly \ found \ in the host \ nucleus. \\ \{ECO:0000255|HAMAP-Rule:MF_04004, \ ECO:0000269|PubMed:18996550\} \\ $$$ 





E7 (43 - 77), HPV Oncoprotein - Images