

Active Full Length Recombinant HPV16 E7 Protein, His-tagged

Cat. No. E7-11076H Lot. No. (See product label)

SPECIFICATION

Product Overview	HPV16 E7 Protein, His Tag is expressed from E. coli cells. It contains AA Met 1 - Pro 98 (Accession # P03129). This protein carries a polyhistidine tag at the N-terminus. Predicted N-terminus: Met
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Species	HPV16
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Source	E. coli
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ProteinLength	1-98 aa
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Description

Human papillomavirus (HPV) E6 and E7 viral oncoproteins play the pivotal role in driving the cells toward oncogenesis. In their process of replicating the viral genome, they can induce all the hallmarks of a cancer cell, i.e., uncontrolled cellular proliferation, angiogenesis, invasion, metastasis, and unrestricted telomerase activity along with the evasion of apoptosis and growth suppressors' activity. 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).

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Form	Supplied as 0.2 µm filtered solution in 50 mM Tris, 500 mM NaCl, pH7.5 with glycerol as protectant.
Bio-activity	Immobilized HPV16 E7 Protein, His Tag at 1 µg/mL (100 µL/well) can bind HPV16 E7 Antibody (ED17), Mouse IgG1 with a linear range of 0.1-4 ng/mL.
Molecular Mass	The protein has a calculated MW of 13.0 kDa. The protein migrates as 15-16 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE).
Purity	>90% as determined by SDS-PAGE.
Storage	This product is stable after storage at: The product MUST be stored at -70 centigrade or lower upon receipt; -70 centigrade for 3 months under sterile conditions. Please avoid repeated freeze-thaw cycles.
Concentration	0.2 mg/mL
Shipping	This product is supplied and shipped with dry ice, please inquire the shipping cost.

GENE INFORMATION

Gene Name	E7 transforming protein E7 [Human papillomavirus 16]
Official Symbol	E7
Synonyms	E7; transforming protein E7; transforming protein E7; E7. Plays a role in viral genome replication by driving entry of quiescent cells into the cell cycle.
Gene ID	1489079

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Protein Refseq	NP_041326
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UniProt ID	P03129
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