

Papillomavirus type 18 Protein E7 (E7) Recombinant Protein | E7 recombinant protein

Recombinant Human papillomavirus type 18 Protein E7 (E7)

CATALOG # AAA18544	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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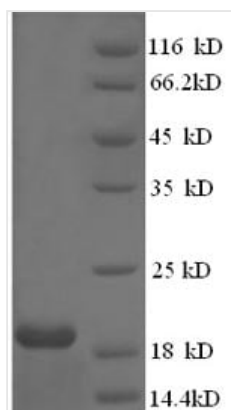
PRODUCT SYNONYMS

Papillomavirus type 18 Protein E7 (E7); Recombinant Human papillomavirus type 18 Protein E7 (E7); E7 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-105aa; Full Length Protein
Sequence	MHGPKATLQD IVLHLEPQNE IPVDLLCHEQ LSDSEEENDE IDGVNHQHLP ARRAEPQRHT MLCMCCKCEA RIKLWVESSA DDLRAFQQLF LNTLSFVCPW CASQQ
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for E7 recombinant protein	E7 protein has both transforming and trans-activating activities. Disrupts the function of host retinoblastoma protein RB1/pRb, which is a key regulator of the cell cycle. Induces the disassembly of the E2F1 transcription factors from RB1, with subsequent transcriptional activation of E2F1-regulated S-phase genes. Inactivation of the ability of RB1 to arrest the cell cycle is critical for cellular transformation, uncontrolled cellular growth and proliferation induced by viral infection. Stimulation of progression from G1 to S phase allows the virus to efficiently use the cellular DNA replicating machinery to achieve viral genome replication. Interferes with histone deacetylation mediated by HDAC1 and HDAC2, leading to activation of transcription.
Product Categories/Family for E7 recombinant protein	Epigenetics and Nuclear Signaling

References	Nucleotide sequence and comparative analysis of the human papillomavirus type 18 genome. Phylogeny of papillomaviruses and repeated structure of the E6 and E7 gene products.Cole S.T., Danos O.J. Mol. Biol. 193:599-608(1987) Nucleotide sequences of cDNAs for human papillomavirus type 18 transcripts in HeLa cells.Inagaki Y., Tsunokawa Y., Takebe N., Nawa H., Nakanishi S., Terada M., Sugimura T.J. Virol. 62:1640-1646(1988) Different human cervical carcinoma cell lines show similar transcription patterns of human papillomavirus type 18 early genes.Schneider-Gaedicke A., Schwarz E.EMBO J. 5:2285-2292(1986) Identification of early proteins of the human papilloma viruses type 16 (HPV 16) and type 18 (HPV 18) in cervical carcinoma cells.Seedorf K., Oltersdorf T., Kraemer G., Roewekamp W.EMBO J. 6:139-144(1987) Interactions of SV40 large T antigen and other viral proteins with retinoblastoma tumour suppressor.Lee C., Cho Y.Rev. Med. Virol. 12:81-92(2002)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	137792
UniProt Accession #	P06788
Molecular Weight	14 kDa
NCBI Official Full Name	Protein E7
UniProt Protein Name	Protein E7
UniProt Gene Name	E7
UniProt Entry Name	VE7_HP18

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.