

Active Full Length Recombinant HPV18 E6 Protein, Twin-WSHPQFEK&MBP&His tagged

Cat. No. E6-11075H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HPV18 E6 Protein, Twin-WSHPQFEK Tag, MBP, His Tag is expressed from E. coli cells. It contains AA Met 1 - Val 158 (Accession # P06463). This protein carries a Twin-WSHPQFEK tag and a MBP tag at the N-terminus, followed by a polyhistidine tag.. Predicted N-terminus: Met
Species	HPV18
Source	E. coli
ProteinLength	1-158 aa
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. E6 associates with host UBE3A/E6-AP ubiquitin-protein ligase, and inactivates tumor suppressors TP53 and TP73 by targeting them to the 26S proteasome for degradation. The complex E6/E6AP targets several other substrates to degradation via the proteasome including host DLG1 or NFX1, a repressor of human telomerase reverse transcriptase (hTERT). The resulting increased expression of hTERT prevents the shortening of telomere length leading to cell immortalization. Other cellular targets including BAK1, Fas-associated death domain-containing protein (FADD) and procaspase 8, are

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degraded by E6/E6AP causing inhibition of apoptosis. E6 also inhibits immune response by interacting with host IRF3 and TYK2. These interactions prevent IRF3 transcriptional activities and inhibit TYK2-mediated JAK-STAT activation by interferon alpha resulting in inhibition of the interferon signaling pathway.

Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized HPV18 E6 Protein, Twin-WSHPQFEK Tag, MBP, His Tag at 1 µg/mL (100 µL/well) can bind HPV16/18 E6 Antibody, Mouse IgG1 with a linear range of 1-31 ng/mL.
Molecular Mass	The protein has a calculated MW of 65.6 kDa. The protein migrates as 65 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE).
Purity	>85% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name E6 E6 protein [human papillomavirus 18]

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Official Symbol	E6
Synonyms	E6; E6 protein
Gene ID	1489088
Protein Refseq	NP_040310
UniProt ID	P06463

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