Recombinant HPV16 E6 Protein, His-tagged

Cat. No. E6-02P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Papillomavirus 16 E6 antigen produced in E. coli contains 159 amino covering the full length of HPV-16 having its C-terminus fused with a 6xHis tag. The HPV16 was purified by proprietary chromatographic technique.
Species	E.coli
Source	HPV16
ProteinLength	1-159 aa
Description	Plays a major role in the induction and maintenance of cellular transformation. Acts mainly as an oncoprotein by stimulating the destruction of many host cell key regulatory proteins. 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. In turn, DNA damage and chromosomal instabilities increase and lead to cell proliferation and cancer development. 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 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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	alpha resulting in inhibition of the interferon signaling pathway.
Form	Sterile filtered colorless solution.
Molecular Mass	21kDa
Purity	> 95% pure as determined by 10% PAGE (coomassie staining).
Applications	Each laboratory should determine an optimum working titer for use in its particular application.
Usage	Our products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Storage	Stable at 4 centigrade for 1 week, should be stored below -18 centigrade. Please prevent freeze thaw cycles.
Storage Buffer	25mM Tris-Base, 25mM k2CO3 and 1M Urea.
Shipping	Ice Packs
Full Length	Full L.

GENE INFORMATION

Gene Name	E6 protein E6*;transforming protein E6 [Human papillomavirus type 16]
Official Symbol	E6
Synonyms	E6; protein E6*;transforming protein E6; protein E6*; transforming protein E6;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	Oncoprotein. It has long been recognized as a potent oncogene and is intimately associated with the events that result in the malignant conversion of virally infected cells.
Gene ID	1489078
Protein Refseq	NP_041325
UniProt ID	P03126

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA