



Recombinant Human papillomavirus type 16 Protein E6 (E6)

Product Code	CSB-EP365854HML
Relevance	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 E6-AP ubiquitin-protein ligase, and inactivates tumor suppressors TP53 and TP73 by targeting th 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/E6P targets several other substrates to degradation via the proteasome including host NFX1-91, 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 Bak, 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 alpha resulting in inhibition of the interferon signaling pathway.
Abbreviation	Recombinant Human papillomavirus type 16 E6 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P03126
Product Type	Recombinant Protein
Immunogen Species	Human papillomavirus type 16
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MHQKRTAMFQDPQERPRKLPQLCTELQTTIHDIIILECVYCKQQLLRREVDFA FRDLCIVYRDGNPYAVCDKCLKFYISKISEYRHYCYSLYGTTLLEQQYNKPLCDLL IRCINCQKPLCPEEKQRHLDKKQRFHNIRGRWTGRCMSSCRSSRTRRETQL
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	E6
Expression Region	1-158aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	23.2 kDa

