

MATERIAL DATA SHEET**E6, Human Papillomavirus type 16, recombinant****Cat. # AP-120**

E6 (Early protein 6) is a viral protein produced in cells infected with the Human Papillomavirus. E6 forms a complex with the host cell ubiquitin ligase E6AP (E6-Associated-Protein) generating a ligase activity that polyubiquitinates tumor suppressors p53 and p73 and targets them to the 26S proteasome for degradation. As a result DNA damage and chromosomal instabilities increase, often leading to cell proliferation and cancer. The E6/E6AP complex also targets other substrates for ubiquitination, such as TERT, BAK1, FADD, and pro-CASP8—none of which appear to be substrates for E6AP in the absence of E6. This protein is untagged, and contains six cysteine-to-serine substitutions at positions 23, 58, 87, 104, 118, and 147 (HPV type 16 sequence numbering).

Product Information

Quantity:	25 µg
Stock:	X mg/ml (X µM) in 50 mM Hepes pH 7.0, 400 mM NaCl, 2 mM DTT
MW:	19 kDa
Purity:	> 90% by SDS-PAGE

Use & Storage

Use:	Typical concentration to support E6AP-mediated p53 ubiquitination <i>in vitro</i> is 0.1-2 µM depending on experimental conditions.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:	Beaudenon S. & Huijbregtse J.M. (2008) <u>BMC Biochem.</u> 9 (Supp1) : S4 Zanier K., <i>et al.</i> (2007) <u>Prot. Exp. & Purif.</u> 51 : 59-70 Zanier K., <i>et al.</i> (2010) <u>J. Mol. Biol.</u> 396 : 90-104
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