

Recombinant HPV18 E6 protein (aa 1-158) [His] (DAGF-097)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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 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/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.
Nature	Recombinant
Expression System	E. coli
Purity	>90% (SDS-PAGE)
Conjugate	His
Sequence Similarities	MARFEDPTRRPYKLPDLCTELNTSLQDIEITCVYCKTVLELTEVFEFAFKDLFVVYRDSI PHAACHKCIDFYSRIRELRHYSDSVYGDTLEKLTNTGLYNLLIRCLRCQKPLNPAEKLRH LNEKRRFHNIAGHYRGQCHSCCNRARQERLQRRRETQV
Molecular Weight	20kD
Procedure	None

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Format	Liquid
Concentration	Batch dependent - please inquire should you have specific requirements.
Size	1 mg
Buffer	Tris, 50% glycerol.
Preservative	None
Storage	May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

BACKGROUND

Keywords	HPV 18; HPV; Human papillomavirus (HPV); Papillomaviridae; Human Papilloma Virus Type 18; Human Papilloma Virus; Human papillomavirus type 18 E6; Human papillomavirus type 18 E6

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