



Recombinant HPV16 E7 protein (aa 1-98) [GST] (DAGF-096)

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

PRODUCT INFORMATION

Antigen Description E7 protein has both transforming and trans-activating activities. Disrupts the function of host retinoblastoma protein RB1/pRb, which is a key regulator of the cell cycle. Induces the disassembly of the E2F1 transcription factors from RB1, with subsequent transcriptional activation of E2F1-regulated S-phase genes. Inactivation of the ability of RB1 to arrest the cell cycle is critical for cellular transformation, uncontrolled cellular growth and proliferation induced by viral infection. Stimulation of progression from G1 to S phase allows the virus to efficiently use the cellular DNA replicating machinery to achieve viral genome replication. Interferes with histone deacetylation mediated by HDAC1 and HDAC2, leading to activation of transcription.

Nature	Recombinant
Expression System	Yeast
Purity	>90% (SDS-PAGE)
Conjugate	GST
Sequence Similarities	MHGDTPTLHEYMLDLQPETTDLYCYEQLNDSSEEEDEIDGPAGQAEPDRAHYNIVTFCKCDST LRLCVQSTHVDIRTLEDLLMGLGIVCPICSQKP
Molecular Weight	38kD
Procedure	None
Format	Liquid
Concentration	Batch dependent - please inquire should you have specific requirements.
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 16; HPV; Human papillomavirus (HPV); Papillomaviridae; Human Papilloma Virus Type 16; Human Papilloma Virus; Human papillomavirus type 16 E7; Human papillomavirus type 16 E7

ANTIGEN GENE INFORMATION

MIM

50% Glycerol
