Active Recombinant Full Length HPV E7 Protein, His tagged

Cat. No. E7-10H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Protein E7, HPV (His) is a recombinant HPV E7 protein expressed from E. coli with an N-6*His tag.
Species	HPV
Source	E.coli
ProteinLength	1-98 aa
Description	HPV16 E7 is a viral phosphoprotein with oncogenic activity, belonging to the human papillomavirus early protein family. HPV16 E7 activates the cell cycle by releasing E2F through proteasome degradation of pRB. HPV16 E7 can cooperate with E6 to immortalize cells and neutralize the toxicity of E5, while activating the AP-1/NF-κB pathway and downregulating E-cadherin to enhance migration and invasion, making it a core target for cervical cancer.
Form	Lyophilized from 0.22 μm filtered solution in 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0 or 50 mM Tris-HCl, 300 mM NaCl, pH 7.4 or PBS, 6% Trehalose, pH 7.4 or 50 mM Tris-HCl, 200 mM NaCl, pH 8.0 or 50 mM Tris-HCl, 300 mM NaCl, pH 7.4, 8% trehalose.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized Protein E7 at 10 μg/mL (100 μL/well) can bind Biotinylated MYC. The ED50 for this effect is ≤0.3071 μg/mL.

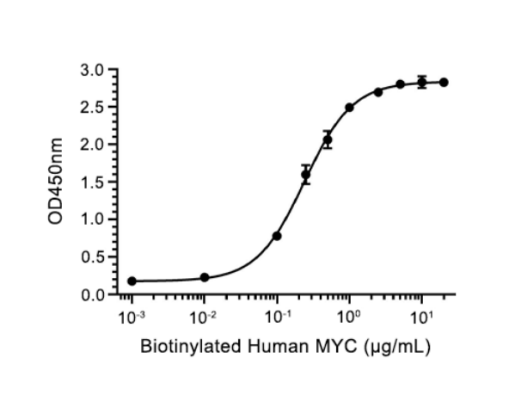
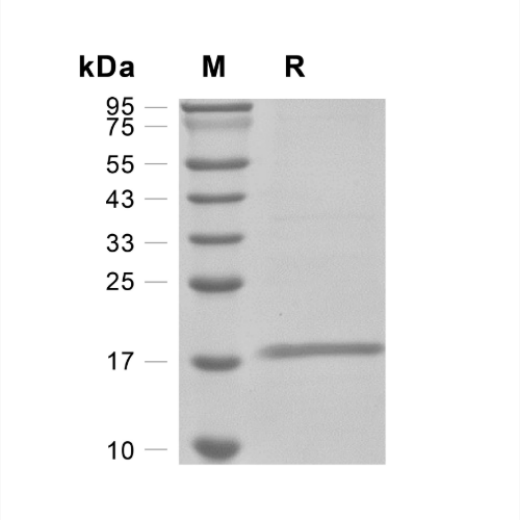
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Molecular Mass	Approximately 18-21 kDa
AASequence	MHGDTPTLHEYMLDLQPETTDLYCYEQLNDSSEEEDEIDGPAGQAEPDRAHYNIVT FCCKCDSTLRLCVQSTHVDIRTLEDLLMGTLGIVCPICSQKP
Endotoxin	< 1 EU/μg by LAL
Purity	> 94% as determined by reducing SDS-PAGE.
Storage	Stored at -20 centigrade for 2 years from date of receipt. After reconstitution, it is stable at 4 centigrade for 1 week or -20 centigrade for longer (with carrier protein). It is recommended to freeze aliquots at -20 or -80 centigrade for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

GENE INFORMATION

Gene Name	E7 transforming protein E7 [Human papillomavirus 16]
Official Symbol	E7
Synonyms	E7; transforming protein E7; transforming protein E7; E7. Plays a role in viral genome replication by driving entry of quiescent cells into the cell cycle.
Gene ID	www.ncbi.nlm.nih.gov/gene/1489079
Protein Refseq	NP_041326

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UniProt ID	P03129
Activity	 Measured by its binding ability in a functional ELISA. Immobilized Protein E7 at 10 μg/mL (100 μL/well) can bind Biotinylated MYC. The ED50 for this effect is 0.2398 μg/mL, corresponding to a specific activity is 4.17×10^3 Unit/mg.
SDS-PAGE	

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