Recombinant HPV16 E7 protein, GST-tagged

Cat. No. E7-669H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HPV16 E7 protein (1-98 aa) with GST tag was expressed in E. coli.
Species	HPV16
Source	E.coli
ProteinLength	1-98 aa
Description	Plays a role in viral genome replication by driving entry of quiescent cells into the cell cycle. Stimulation of progression from G1 to S phase allows the virus to efficiently use the cellular DNA replicating machinery to achieve viral genome replication. E7 protein has both transforming and trans-activating activities. Induces the disassembly of the E2F1 transcription factor from RB1, with subsequent transcriptional activation of E2F1-regulated S-phase genes. Interferes with host histone deacetylation mediated by HDAC1 and HDAC2, leading to transcription activation. Also plays a role in the inhibition of both antiviral and antiproliferative functions of host interferon alpha. Interaction with host TMEM173/STING impairs the ability of TMEM173/STING to sense cytosolic DNA and promote the production of type I interferon (IFN-alpha and IFN-beta).
Form	Sterile PBS, pH 7.4
Molecular Mass	37 kDa
AASequence	MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPY

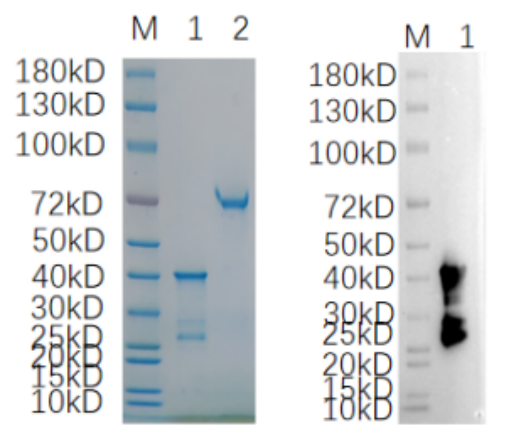
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	YIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGAVLDIRYGVSRIAYSKDFE TLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDA FPKLVCFKKRIEAIPQIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLEVLFQGPL GSMHGDTPTLHEYMLDLQPETTDLYCYEQLNDSSEEEDEIDGPAGQAEPDRAHYNI VTFCCKCDSTLRLCVQSTHVDIRTLEDLLMGTLGIVCPICSQKP
Endotoxin	< 0.1 EU/μg by LAL
Purity	>80% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.28 mg/mL by Bradford

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	1489079
Protein Refseq	NP_041326
UniProt ID	P03129

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SDS-PAGE and WB	 Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-GST Mouse Monoclonal antibody) analysis profiles of purified E7. 1. E7: 1 μg 2. BSA: 1 μg

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