

## HPV 16

**Description:**The Recombinant HPV-16 antigen is a full length protein expressed in E. coli having an Mw of 56.7kDa. The protein is fused to a 26kDa GST-Tag, having a total Mw of 82.7kDa and purified by standard chromatography.

Catalog #:HPPS-008

**Synonyms:**Papillomavirus, HPV, Papilloma Virus.

For research use only.

**Source:**E.Coli.

**Physical Appearance:**Sterile filtered clear liquid formulation.

### Amino Acid Sequence:

MQVTFIYLITCYENDVNVYHIFFQMSLWLPSEATVYLPVPVSKVSTDEYVARTNIYYHAGTSR  
LLAVGHPYFPIKKNKILVPKVSGLQYRVFRIHLDPNKFDPDTSFYNPDTQRLVWACVGVEV  
GRGQPLGVGISGHPDLLNKLDDTENASAYAANAGVDNRECISMDYKQTQLCLIGCKPPIGEHWGK  
GSPCTNVAVNPAGDCPPLELINTVIQDGMVHTGFGAMDFTTLQANKSEVPLDICTSIC

**Purity:**Protein is >95% pure as determined by 12% SDS-PAGE (Coomassie staining).

### Purification Method:

The recombinant HPV-16 fusion protein was purified by GSH affinity chromatography technique.

### Formulation:

The protein is formulated with 1xPBS, 40mM arginine and 0.02% sodium azide.

### Stability:

Recombinant HPV-16 although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Human papillomavirus family consist of over 200 types. Over than 30 to 40 types of HPV are transferred via sexual contact and infect the anogenital region initiating genital warts. Persistent infection with "high-risk" HPV types results in skin warts and leads to precancerous lesions and invasive cancer. HPV infection is considered as a source for all incidents of cervical cancer. E2, E6, and E7 proteins of HPV-16 and 18 are considered the main viral oncoproteins that take part in cervical cancer. The type-specific antigen epitopes of E2, E6, and E7 proteins of HPV-16 are fused together and expressed in E. coli for diagnostic purpose.

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