

HPV 18

Description: The Recombinant HPV-18 (a 56kDa antigen) comprised from the E2, E6 & E7 epitopes is expressed in E. coli and fused to a GST-Tag, having a total Mw of 83kDa, purified by standard chromatography.

Catalog #: HPPS-009

For research use only.

Synonyms: Papillomavirus, HPV, Papilloma Virus.

Source: E. Coli

Physical Appearance: Sterile filtered clear liquid formulation.

Amino Acid Sequence:

VDVYLPPPSVARVNTDDYVTPTSIFYHAGSSRLTVGNPYFRVPAGGGNKQDIPKVSAYQYRVF
RVQLPDPNKFGLPDTSIYNPETQRLVWACAGVEIGRGQPLGVGLSGHPFYNKLDDESSHAATS
NVSEVDNRNVSVDYKQTQLCILGCAPAIGEHWAKGTACKSRPLSQGDCPPELKNTVLEDGDMV
DTGYGAMDFSTLQDTKCEVPLDICQSICKYPDYLMASADPYGDSMFFCLRREQLFARHFWNR

Purity: Protein is >95% pure as determined by 12% 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, 20mM arginine and 0.02% sodium azide as preservative.

Usage:

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Applications:

Immunoassay.

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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