

Recombinant HPV33 major capsid L1 protein, His-tagged

Cat. No. L1-03H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HPV33 major capsid L1 protein with C-terminal His6 fusion tag was expressed in E. coli.
Species	Human Papillomavirus Type 33
Source	E.coli
ProteinLength	507
Description	Forms an icosahedral capsid with a T=7 symmetry and a 50 nm diameter. The capsid is composed of 72 pentamers linked to each other by disulfide bonds and associated with L2 proteins. Binds to heparan sulfate proteoglycans on cell surface of basal layer keratinocytes to provide initial virion attachment. This binding mediates a conformational change in the virus capsid that facilitates efficient infection. The virion enters the host cell via endocytosis. During virus trafficking, L1 protein dissociates from the viral DNA and the genomic DNA is released to the host nucleus. The virion assembly takes place within the cell nucleus. Encapsulates the genomic DNA together with protein L2.
Form	Buffered aqueous solution
Molecular Mass	57 kDa
AA Sequence	MSVWRPSEATVYLPPVPVSKVVSTDEYVSRTSIYYYAGSSRLLAVGHPYFSIKNPTN AKKLLVPKVSGLQYRVFRVRLPDPNKFGFPDTSFYNPDTQRLVWACVGLEIGRGQP

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LGVGISGHPLLNFDDTETGNKYPGQPGADNRECLSM DYKQTQLCLLGCKPPTGEH
 WGKGVACTNAAPANDCPPELINTIIEDGDMVDTGFGCMDFKTLQANKSDVPIDICG
 STCKYPDYLKMTSEPYGDSLFFFLRREQMFVRHFFNRAGTLGEAVPDDLYIKGSGT
 TASIQSSAFFPTPSGSMVTSESQ LFNKPYWLQRAQGHNNGICWGNQVFVTVVDTTR
 STNMTLCTQVTS DSTYKNENFKEYIRHVEEYDLQFVFQLCKVTLTAEVMTYIHAMNP
 DILEDWQFGLTPPPSASLQDTYRFVTSQAITCQKTVPPKEKEDPLGKYTFWEVDLKE
 KFSADLDQFPLGRKFLLQAGLKAKPKLKRAAPTSTRTSSAKRKKVKKHHHHHHHH

Endotoxin 1EU/ug by LAL

Purity 90% by SDS-PAGE

Applications Antigen for antibody production
ELISA

Storage Store it under sterile conditions at -20 to -80 °C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 0.23 mg/ml

Storage Buffer Solution in PBS, 0.05%SKL, pH7.4

GENE INFORMATION

Gene Name L1

Official Symbol major capsid L1 protein

Synonyms major capsid L1 protein

Gene ID 1489082

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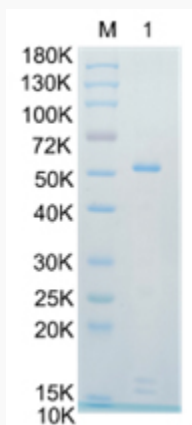
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mRNA Refseq [M12732.1](#)

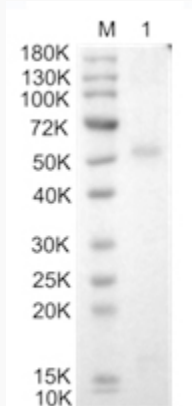
Protein Refseq [P06416.1](#)

UniProt ID [P06416](#)

SDS-PAGE



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