

Recombinant HPV18 major capsid L1 protein, His-tagged

Cat. No. L1-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant HPV18 major capsid L1 protein with C-terminal His6 fusion tag was expressed in E. coli.
Species	Human Papillomavirus Type 18
Source	E.coli
ProteinLength	527
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	58.9 kDa
AA Sequence	MRNVNVFPIFLQMALWRPSDNTVYLPPPSVARVVNTDDYVTPTSIFYHAGSSRLLTV GNPYFRVPAGGGNKQDIPKVSAYQYRVFRVQLPDPNKFGLPDTSIYNPETQRLVWA

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CAGVEIGRGQPLGVGLSGHPFYNKLDDTESSHAATSNVSEDVRDNVSVDYKQTQL
 CILGCAPAIGEHWAKGTACKSRPLSQGDCPPLELKNTVLEDGDMVDTGYGAMDFST
 LQDTKCEVPLDICQSICKYPDYLMASADPYGDSMFFCLRREQLFARHFWNRAGTM
 GDTVPPQSLYIKGTGMPASPGSCVYSPSPSGSIVTSDSQLFNKPYWLHKAQGHNNGV
 CWHNQLFVTVVDTPSTNLTCIASTQSPVPGQYDATKFKQYSRHVEEYDLQFIFQLC
 TITLTADVMSYIHSMNSSILEDWNFGVPPPPTTSLVDTYRFVQSVAITCQKDAAPAEN
 KDPYDKLKFWNVLDLKEKFSLDLDQYPLGRKFLVQAGLRRKPTIGPRKRSAPSATTSS
 KPAKRVRVRARKHHHHHHHHH

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	0.98 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

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Gene ID	1489090
mRNA Refseq	X05015.1
Protein Refseq	NP_040317.1
UniProt ID	P06794

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