





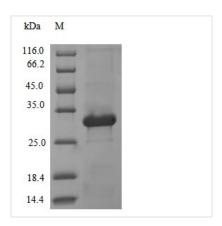
Recombinant Human adenovirus C serotype 5 Protease (L3)

Product Code	CSB-EP361000HILb1
Relevance	Cleaves viral precursor proteins (pTP, pIIIa, pVI, pVII, pVIII, and pX) inside newly assembled particles giving rise to mature virions. Protease complexed to its cofactor slides along the viral DNA to specifically locate and cleave the viral precursors. Mature virions have a weakened organization compared to the unmature virions, thereby facilitating subsequent uncoating. Without maturation, the particle lacks infectivity and is unable to uncoat. Late in adenovirus infection, in the cytoplasm, may participate in the cytoskeleton destruction. Cleaves host cell cytoskeletal keratins K7 and K18.
Abbreviation	Recombinant Human adenovirus C serotype 5 Protease protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P03253
Alias	Adenain Adenovirus protease
Product Type	Recombinant Protein
Immunogen Species	Human adenovirus C serotype 5 (HAdV-5) (Human adenovirus 5)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MGSSEQELKAIVKDLGCGPYFLGTYDKRFPGFVSPHKLACAIVNTAGRETGGV HWMAFAWNPHSKTCYLFEPFGFSDQRLKQVYQFEYESLLRRSAIASSPDRCIT LEKSTQSVQGPNSAACGLFCCMFLHAFANWPQTPMDHNPTMNLITGVPNSML NSPQVQPTLRRNQEQLYSFLERHSPYFRSHSAQIRSATSFCHLKNM
Research Area	others
Source	E.coli
Target Names	L3
Expression Region	1-204aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	28.1kDa
Protein Length	Full Length
Image	

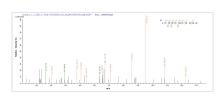
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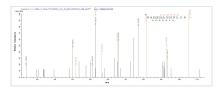




(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP361000HILB1 could indicate that this peptide derived from E.coli-expressed Human adenovirus C serotype 5 (HAdV-5) (Human adenovirus 5) L3.



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Description

The N-terminal 10xHis tag and C-terminal Myc tag was fused to the gene fragment corresponding to the 1-204aa of the human adenovirus C serotype 5 L3 protein and then was cloned into an expression vector. The expression vector was transformed into the E.coli for expression. The generated product was purified and separated to obtain the recombinant human adenovirus C serotype 5 L3 protein. Its purity is higher than 90%. This recombinant L3 protein showed an apparent molecular weight of about 30 kDa under SDS-PAGE condition.

Cleaves viral precursor proteins including pTP, pIIIa, pVI, pVII, pVIII, and pX could lead to the production of mature virions. Compared to the unmature virions, mature virions show a weakened organization, which further enhances the subsequent uncoating. The particle lacks infectivity and is unable to uncoat as there is no maturation. In the cytoplasm, L3Protease may participate in the cytoskeleton destruction and cleaves host cell cytoskeletal keratins K7 and K18.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life



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