

Recombinant Human Clpp Caseinolytic Peptidase, ATP-Dependent, Proteolytic Subunit Homolog (E.coli)

Cat. No. CLPP-1679H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CLPP protein was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	CLPP (ATP-dependent Clp protease proteolytic subunit) belongs to the peptidase family S14. CLPP cleaves peptides in various proteins in a process that requires ATP hydrolysis. CLPP, the catalytic core of the Clp proteolytic complex, is widely involved in many cellular processes via the regulation of intracellular protein quality. CLPP may be responsible for a fairly general and central housekeeping function rather than for the degradation of specific substrates.
Concentration	0.5 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 7.5, containing 2mM DTT, 20% glycerol and 100mM NaCl.
Purity	> 90% by SDS - PAGE
Sequence	57-277 amino acids: MPLIPIVVEQ TGRGERAYDI YSRLLRERIV CVMGPIDDSV ASLVIAQLLF LQSESNKKPI HMYINSPGGV VTAGLAIYDT MQYILNPICT WCVGQAASMG SLLLAAGTPG MRHSLPNSRI MIHQPSGGAR GQATDIAIQA

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EEIMKLLKKQL YNIYAKHTKQ SLQVIESAME RDRYMSPMEA QEFGILDKVL
VHPPQDGEDE PTLVQKEPVE AA

Molecular Mass 24.2 kDa

Applications SDS-PAGE

Storage Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name CLPP ClpP caseinolytic peptidase, ATP-dependent, proteolytic subunit homolog (E. coli) [Homo sapiens]

Official Symbol CLPP

Synonyms CLPP; putative ATP-dependent Clp protease proteolytic; subunit, mitochondrial; endopeptidase Clp; ATP-dependent protease ClpAP, proteolytic subunit, human; ClpP caseinolytic peptidase ATP-dependent, proteolytic subunit; ClpP caseinolytic protease, ATP-dependent, proteolytic subunit homolog

Gene ID 8192

mRNA Refseq NM_006012

Protein Refseq NP_006003

MIM 601119

UniProt ID Q16740

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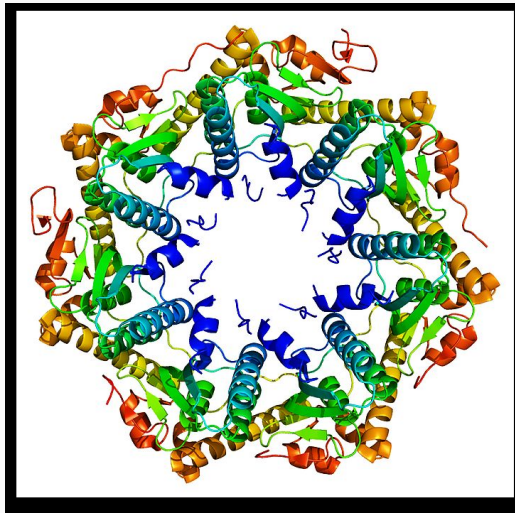
**Chromosome
Location**

19p13.3

Function

ATP binding; nucleotide binding; peptidase activity; protein binding; serine-type endopeptidase activity

**PDB rendering
based on 1tg6.**



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