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

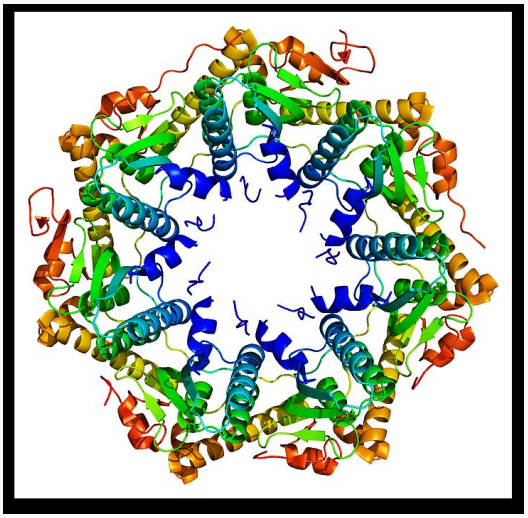
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	EEIMKLKKQL YNIYAKHTKQ SLQVIESAME RDRYMSPMEA QEFGILDKVL VHPPQDGEDE PTLVQKEPVE AA
Molecular Mass	24.2 kDa
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. 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 basedon 1tg6.	

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