

Recombinant Human caseinolytic mitochondrial matrix peptidase proteolytic subunit, His-tagged

Cat. No. CLPP-694H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CLPP, 57-277aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	57-277 a.a.
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. Recombinant human CLPP protein was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 7.5) containing 2mM DTT, 20% glycerol, 100mM NaCl
Molecular Mass	24.2kDa (222aa), confirmed by MALDI-TOF
AA Sequence	MPLIPIVVEQ TGRGERAYDI YSRLLRERIV CVMGPIDDSV ASLVIAQLLF LQSESNKKPI HMYINSPGGV VTAGLAIYDT MQYILNPICT WCVGQAASMG SLLLAAGTPG MRHSLPNSRI MIHQPSGGAR GQATDIAIQA EEIMKLKKQL

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YNIYAKHTKQ SLQVIESAME RDRYMSPMEA QEFGILDKVL VHPPQDGEDE
PTLVQKEPVE AAPAAEPVPA ST

Purity >90% by SDS - PAGE

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

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

Official Symbol CLPP

Synonyms CLPP; ClpP caseinolytic peptidase, ATP-dependent, proteolytic subunit homolog (E. coli); ClpP (caseinolytic protease, ATP dependent, proteolytic subunit, E. coli) homolog , ClpP caseinolytic protease, ATP dependent, proteolytic subunit homolog (E. coli); putative ATP-dependent Clp protease proteolytic subunit, mitochondrial; ATP dependent protease ClpAP (E. coli); proteolytic subunit; human; 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

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MIM	601119
UniProt ID	Q16740
Chromosome Location	19
Function	ATP binding; nucleotide binding; peptidase activity; protein binding; serine-type endopeptidase activity;

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