

Recombinant Human CLPP, His-tagged

Cat. No. CLPP-3538H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanCLPP protein was expressed in E. coli and purified by using conventionalchromatography techniques.
Species	Human
Source	Human
Description	CLPP belongs to thepeptidase family S14. CLPP cleaves peptides in various proteins in a processthat requires ATP hydrolysis. CLPP, the catalytic core of the Clp proteolyticcomplex, is widely involved in many cellular processes via the regulation ofintracellular protein quality. CLPP may be responsible for a fairly generaland central housekeeping function rather than for the degradation of specificsubstrates.
Application	SDS-PAGE
Form	Liquid. In 20mM Tris-HClbuffer (pH 8.0) containing 2mM DTT, 20% glycerol, 200mM NaCl.
Molecular Weight	24.2 kDa (222aa),confirmed by MALDI-TOF
Purity	> 90% by SDS-PAGE
Concentration	0.5 mg/ml(determined by Bradford assay)
Sequences of	MPLIPIVVEQTGRGERAYDI YSRLLRERIV CVMGPIDDSV ASLVIAQLLF

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

aminoacids	LQSESNKKPI HMYINSPGGV VTAGLAIYDTMQYILNPICT WCVGQAASMG SLLLAAGTPG MRHSLPNSRI MIHQPSGGAR GQATDIAIQA EEIMKLLKKQLYNIYAKHTKQ SLQVIESAME RDRYMSPMEA QEFGILDKVL VHPPQDGEDE PTLVQKEPVE AAPAAEPVPAST
Storage	Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
OfficialSymbol	CLPP
GENE INFORMATION	
Gene Name	CLPP ClpP caseinolyticpeptidase, ATP-dependent, proteolytic subunit homolog (E. coli) [Homosapiens]
Synonyms	CLPP; ClpPcaseinolytic peptidase, ATP-dependent, proteolytic subunit homolog (E. coli);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, proteolyticsubunit homolog; EC 3.4.21.92; putative ATP-dependent Clp proteaseproteolytic subunit, mitochondrial
Gene ID	8192
mRNA Refseq	NM_006012
Protein Refseq	NP_006003
MIM	601119
UniProt ID	Q16740

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Chromosome Location	19p13.3
Function	ATP binding; nucleotidebinding; peptidase activity; protein binding; serine-type endopeptidaseactivity

PDB rendering based on 1tg6.

