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# **Recombinant human CLPP protein**

Catalog Number: ATGP1073

#### **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

57-277aa

#### UniProt No.

016740

#### **NCBI Accession No.**

NP 006003.1

#### **Alternative Names**

Putative ATP-dependent Clp protease proteolytic subunit mitochondrial, Endopeptidase Clp

### **PRODUCT SPECIFICATION**

### **Molecular Weight**

24.2 kDa (222aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 2mM DTT, 20% glycerol, 100mM NaCl

#### **Purity**

> 95% by SDS-PAGE

#### Tag

Non-Tagged

#### **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **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.



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# **Amino acid Sequence**

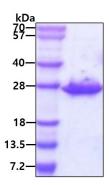
MPLIPIVVEQ TGRGERAYDI YSRLLRERIV CVMGPIDDSV ASLVIAQLLF LQSESNKKPI HMYINSPGGV VTAGLAIYDT MQYILNPICT WCVGQAASMG SLLLAAGTPG MRHSLPNSRI MIHQPSGGAR GQATDIAIQA EEIMKLKKQL YNIYAKHTKQ SLQVIESAME RDRYMSPMEA QEFGILDKVL VHPPQDGEDE PTLVQKEPVE AAPAAEPVPA ST

# **General References**

Li XH., et al (2010) BMC Microbiol. 19:10:54. Kang, S.G., et al (2002) J. Biol. Chem. 277: 21095-21102.

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

