

Recombinant human CLPP protein

Catalog Number: ATGP1073

PRODUCT INFORMATION

Expression system

E.coli

Domain

57-277aa

UniProt No.

Q16740

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

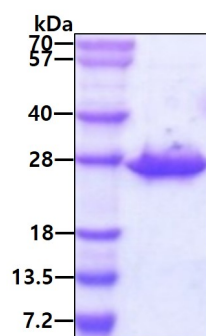
MPLIPIVVEQ TGRGERAYDI YSRLLRERIV CVMGPIDDSV ASLVIAQLLF LQSESNKKPI HMYINSPGGV VTAGLAIYDT
MQYILNPICT WCVGQAASMG SLLLAAGTPG MRHSLPNSRI MIHQPSGGAR GQATDIAIQA EEIMKLLKQL YNIYAKHTKQ
SLQVIESAME RDRYMSPMEA QFGILDKVL VHPPQDGEDE PTLVQKEPVE AAPAAEPVPA ST

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