

CLPP Human

Description: CLPP produced in E.Coli is a single, non-glycosylated polypeptide chain containing 222 amino acids (57-277 a.a.) and having a molecular mass of 24.2kDa. CLPP is purified by proprietary chromatographic techniques.

Catalog #: ENPS-122

For research use only.

Synonyms: Putative ATP-dependent Clp protease proteolytic subunit mitochondrial, Endopeptidase Clp, CLPP.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MPLIPIVVEQ TGRGERAYDI YSRLLRERIV CVMGPIDDSV
ASLVIAQLLF LQSESNKKPI HMYINSPGGV VTAGLAITYDT MQYILNPICW WCVGQAASMG
SLLLAAGTPG MRHSLPNSRI MIHQPSGGAR GQATDIAIQA EEIMKLKKQL YNIYAKHTKQ
SLQVIESAME RDRYMSPMEA QEFGILDKVL VHPPQDGEDE PTLVQKEPVE AAPAAEPVPA ST.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

CLPP solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 7.5), 2mM DTT, 20% glycerol and 100mM NaCl.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

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Introduction:

ATP-dependent Clp protease proteolytic subunit (CLPP) is a member of the peptidase family S14. CLPP cleaves peptides in a variety of proteins in a manner which requires ATP hydrolysis. CLPP being the catalytic core of the Clp proteolytic complex is commonly involved in many cellular processes via the regulation of intracellular protein quality. CLPP is responsible for a somewhat general and central housekeeping function rather than for the degradation of specific substrates.

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