
Product Data Sheet

Product Name: CLPP Human
 Cat. No.: GP21486
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Putative ATP-dependent Clp protease proteolytic subunit mitochondrial; Endopeptidase Clp; CLPP.		
Amino Acid Sequence	MPLIPIVVEQ TGRGERAYDI YSRLLRERIV CVMGPIDDSV ASLVIAQLLF LQSESNKKPI HMYINSPGGV VTAGLAIYDT MQYILNPICT WCVGQAASMG SLLLAAGTPG MRHSLPNSRI MIHQPSGGAR GQATDIAIQA EEIMKLLKQL YNIYAKHTKQ SLQVIESAME RDRYMSPMEA QEFGILDKVL VHPPQDGEDE PTLVQKEPVE AAPAAEPVPA ST.		
Formulation	CLPP solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 7.5), 2mM DTT, 20% glycerol and 100mM NaCl.		

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.

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.

Background

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

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proprietary chromatographic techniques.

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