

ATP-dependent Clp protease proteolytic subunit 2, mitochondrial (CLPP2), Recombinant Protein

Cat *RP05152*

Size 0.02 mg (*E-Coli*)/ 0.1 mg (*E-Coli*)/ 0.02 mg (*Yeast*)/ 0.1 mg (*Yeast*)/ 0.02 mg (*Baculovirus*)/ 0.02 mg (*Mammalian-Cell*)/ 1 mg (*E-Coli*)/ 0.1 mg (*Baculovirus*)/ 1 mg (*Yeast*)/ 0.1 mg (*Mammalian-Cell*)/ 1 mg (*Baculovirus*)/ 0.5 mg (*Mammalian-Cell*)

Species^{Cell}

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* ATP-dependent Clp protease proteolytic subunit 2, mitochondrial (CLPP2)

Product Gene Name

CLPP2 recombinant protein

Product Synonym Gene Name

CLPP2

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

SLIPMVEIHS SRGERAYDIF SRLKERIIC INGPINDDTS HVVVAQLLYL ESENPSKPIH MYLNSPGGHV
TAGLAIYDTM QYIRSPISTI CLGQAASMAS LLLAAGAKGQ RRSLPNATVM IHQPSGGYSG QAKDITIHTK
QIVRVWDALN ELYVKHTGQP LDVVANNMDR DHFMTPEEAK AFGIIDEVID ERPLELVKDA VGNESKDKSS S

Sequence Positions

31-241, Full length protein

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or *Yeast* or *Baculovirus* or *Mammalian Cell*

Molecular Weight

26,283 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

Protein Family

ATP-dependent Clp protease proteolytic

NCBI Accession

NP_568427.1

NCBI GI

18420643

NCBI GenBank Nucleotide

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NM_122222

NCBI GeneID

832378

NCBI Official Full Name

nuclear-encoded CLP protease P7

NCBI Official Symbol

NCLPP7

NCBI Official Synonym Symbols

CLPP2; MYJ24.13; MYJ24_13; nuclear-encoded CLP protease P7

NCBI Protein Information

nuclear-encoded CLP protease P7

NCBI Summary

One of several nuclear-encoded ClpPs (caseinolytic protease). Contains a highly conserved catalytic triad of Ser-type proteases (Ser-His-Asp). The name reflects nomenclature described in Adam et. al (2001).

UniProt Gene Name

CLPP2

UniProt Protein Name

ATP-dependent Clp protease proteolytic subunit 2, mitochondrial

UniProt Synonym Protein Names

ATP-dependent Clp protease proteolytic subunit 1, mitochondrial; Endopeptidase ClpP2

UniProt Primary Accession

Q9FN42

UniProt Related Accession

Q9FN42

UniProt Comments

Component of the mitochondrial ATP-dependent Clp protease (PubMed:11352464). Cleaves peptides in various proteins in a process that requires ATP hydrolysis . Has a chymotrypsin-like activity. Plays a major role in the degradation of misfolded proteins .

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