

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

SLIPMVIEHS SRGERAYDIF SRLLKERIIC INGPINDDTS HVVVAQLLYL ESENPSKPIH MYLNSPGGHV
TAGLAIYDTM QYIRSPISTI CLGQAASMAS LLLAAGAKGQ RRSLPNATVM IHQPSGGYSG QAKDITIHTK
QIVRVWDALN ELYVKHTGQP LDVVANNMDR DHFMTPEEAK AFGIIDEVID ERPLELVKDA VGNESDKSS 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

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)

NM_122220 (Cell)

NCBI GenelD

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.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY