

Peroxygenase 2 (PXG2), Recombinant Protein

Cat *RP01031*

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-
Arabidopsis thaliana (Mouse-ear cress)
Cell)

Full Product Name

Recombinant Arabidopsis thaliana Peroxygenase 2 (PXG2)

Product Gene Name

PXG2 recombinant protein

Product Synonym Gene Name

PXG2

Purity

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

Sequence

TSMERMERDA METVAPYARV TYHRRVRGDL DDTLPKPYLP RALQAPDMEH PQGTPDHRHN GLSVLQQHVA
FFDLNNGII YPFETFSGFR LLGFNLLASL ILAAGINIAL SYATLPGWLP SPFFPIYIHN IHKAKHGSDS
KTYDNEGRYT PANLELMFSK YARTIPDKLS LGELWDMTEG NRDAFDFFGW LASKVEWGV LALASDEEGF
LSKEAIRRCF DGSLFEYCAK NYAEIKEYKT YY

Sequence Positions

2-243, 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

27,876 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

Peroxygenase

NCBI Accession

NP_200335.1

NCBI GI

15240486

NCBI GenBank Nucleotide

NM_124906.3

NCBI GeneID

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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(Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 1

835617 mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg
(Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-
Cell)

NCBI Official Full Name

PEROXYGENASE 2

NCBI Official Symbol

ATPXG2

NCBI Official Synonym Symbols

ARABIDOPSIS THALIANA PEROXYGENASE 2; MCO15.19; MCO15_19

NCBI Protein Information

PEROXYGENASE 2

NCBI Summary

Catalyze hydroperoxide-dependent mono-oxygenation reactions. Require calcium for peroxygenase activity. Probably deeply buried in lipid droplets or microsomes.

UniProt Gene Name

PXG2

UniProt Synonym Gene Names

ATS2; CLO2; AtPXG2

UniProt Protein Name

Peroxygenase 2

UniProt Synonym Protein Names

Caleosin-2; Embryo-specific protein 2; Putative embryo-specific protein 1 (ATS2)

UniProt Primary Accession

Q9FLN9

UniProt Related Accession

Q9FLN9

UniProt Comments

Calcium-binding peroxygenase involved in the degradation of storage lipid in oil bodies. May be involved in the interaction between oil bodies and vacuoles during seed germination and in the oxylipin signaling pathways and plant defense responses. Can catalyze sulfoxidation of thiobenzamide, hydroxylation of aniline and epoxidation of oleic acid.

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