

Protein disulfide-isomerase 5-2 (PDIL5-2), Recombinant Protein

Cat RP08644

Size 0.02 mg/ 0.1 mg/ 5x0.1 mg

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Protein disulfide-isomerase 5-2 (PDIL5-2)

Product Gene Name

PDIL5-2 recombinant protein

Product Synonym Gene Name

PDI8; PDIL7-1

Purity

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

Sequence

SDDQFTLDGT VLELTDSNFD SAISTFDCIF VDFYAPWCGH CKRLNPELDA AAPILAKLKQ PIVIAKLNAD
KYSRLARKIE IDAFPTLMLY NHGVPMEYYG PRKADLLVRY LKKFVAPDVA VLESNSTVKE FVEDAGTFFP
VFIGFGLNES IISGLGRKYK KKAFAVSKE VSEDTMVSYD FDKA PALVAN HPTYNEHSVF YGPFEDGFLE
EFVKQSFLPL ILPINHDTLK LLKDDERKIV LTIVEDETHE SLEKLYKALR AAAHANRDLV FGYVGVKQFE
EFVDSFHVDK KTNLPKIVWW DGDEEYDQVT GIETITQEED HLTQVSRFLE GYREGRTEKK KINGPSFMGF
INSMIGIRSV YILVFLVAI MMLRSLGQVE EPTGVRTATA VRERVDQATT VPEDESSEHK PSDKKED

Sequence Positions

24-440aa; full length protein

Format

Liquid containing glycerol

Host

Cell Free Expression

Molecular Weight

49,851 Da

Storage

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

Protein Family

Protein disulfide isomerase

NCBI Accession

NP_564462.1

NCBI GI

18399786

NCBI GenBank Nucleotide

NM_103262.4

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GenelD

840461

NCBI Official Full Name

protein disulfide isomerase 5-2

NCBI Official Symbol

PDIL5-2

NCBI Official Synonym Symbols

ARABIDOPSIS THALIANA PROTEIN DISULFIDE ISOMERASE 8; ATPDI8; ATPDIL5-2; F15O4.20; PDI-like 5-2; PDI8; PDIL5-2; PROTEIN DISULFIDE ISOMERASE 8

NCBI Protein Information

protein disulfide isomerase 5-2

NCBI Summary

Encodes a protein disulfide isomerase-like (PDIL) protein, a member of a multigene family within the thioredoxin (TRX) superfamily. Unlike several other PDI family members, transcript levels for this gene are not up-regulated in response to three different chemical inducers of ER stress (dithiothreitol, beta-mercaptoethanol, and tunicamycin). However, the level of transcripts for this gene is slightly elevated in atbzip60 mutants.

UniProt Gene Name

PDIL5-2

UniProt Synonym Gene Names

PDI8; PDIL7-1; AtPDIL5-2; AtPDIL7-1; PDI8

UniProt Protein Name

Protein disulfide-isomerase 5-2

UniProt Synonym Protein Names

Protein disulfide-isomerase 7-1; AtPDIL7-1; Protein disulfide-isomerase 8; PDI8

UniProt Entry Name

PDI52_ARATH

UniProt Primary Accession

Q94F09

UniProt Secondary Accession

Q9LQG5

UniProt Related Accession

Q94F09

UniProt Comments

Acts as a protein-folding catalyst that interacts with nascent polypeptides to catalyze the formation, isomerization, and reduction or oxidation of disulfide bonds.

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