Thioredoxin F1, chloroplastic (At3g02730), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP09944*

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

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Thioredoxin F1, chloroplastic (At3g02730)

Product Gene Name
At3g02730 recombinant protein

Product Synonym Gene Name
At3g02730

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

Sequence
CSLETVNVSV GQVTEVDKDT FWPIVKAAGE KLVVLDMYTQ WCGPCKVIAP KYKALSEKYD DVVFLKLDCN PDNRPLAKEL GIRVVPTFKI LKDNKVVKEV TGAKYDDLVA AIETARSAAS G

Sequence Positions
58-178, 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
19,325 Da

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

Protein Family
Thioredoxin

NCBI Accession
NP_186922.1

NCBI GI
15232959

NCBI GenBank Nucleotide
NM_111141.3

NCBI GeneID
821260

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NCBI Official Full Name
thioredoxin F-type 1

NCBI Official Symbol
TRXF1

NCBI Official Synonym Symbols
ATF1; thioredoxin F-type 1

NCBI Protein Information
thioredoxin F-type 1

UniProt Gene Name
At3g02730

UniProt Synonym Gene Names
AtTrxf1; AtTrxf2

UniProt Protein Name
Thioredoxin F1, chloroplastic

UniProt Synonym Protein Names
Thioredoxin F2; AtTrxf2

UniProt Primary Accession
Q9XFH8

UniProt Secondary Accession
Q9M8R5

UniProt Related Accession
Q9XFH8

UniProt Comments
Thiol-disulfide oxidoreductase involved in the redox regulation of enzymes of both reductive pentose phosphate pathway (Calvin-Benson cycle) and oxidative pentose phosphate pathway. Under light or reducing conditions, activates in chloroplast the glyceraldehyde-3-phosphate dehydrogenase, the phosphoribulokinase and the fructose-1,6-bisphosphate phosphatase, and inhibits the glucose-6-phosphate dehydrogenase.

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