

Thioredoxin H3 (TRX3), Recombinant Protein

Cat *RP01835*

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

Species (Mammalian-Cell)/ 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 Thioredoxin H3 (TRX3)

Product Gene Name

TRX3 recombinant protein

Product Synonym Gene Name

TRX3

Purity

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

Sequence

MAAEGEVIAC HTVEDWTEKL KAANESKKLI VIDFTATWCP PCRFIAPVFA DLAKKHLDVV FFKVDVDELN
TVAAEFKVQA MPTFIFMKEG EIKETVVGAA KEEIIANLEK HKTVVAAA

Sequence Positions

1-118, 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

13,109 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

Thioredoxin

NCBI Accession

NP_199112.1

NCBI GI

15239136

NCBI GenBank Nucleotide

NM_123664.4

NCBI GeneID

834313

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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(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)

NCBI Official Full Name

thioredoxin 3

NCBI Official Symbol

TRX3

NCBI Official Synonym Symbols

ATH3; ATTRX3; ATTRXH3; MBD2.18; MBD2_18; THIOREDOXIN; thioredoxin 3; thioredoxin H-type 3;
THIOREDOXIN H3; TRXH3

NCBI Protein Information

thioredoxin 3

NCBI Summary

encodes a cytosolic thioredoxin that reduces disulfide bridges of target proteins by the reversible formation of a disulfide bridge between two neighboring Cys residues present in the active site. Thioredoxins have been found to regulate a variety of biological reactions in prokaryotic and eukaryotic cells.

UniProt Gene Name

TRX3

UniProt Synonym Gene Names

AtTrxh3; AtTRX3

UniProt Protein Name

Thioredoxin H3

UniProt Synonym Protein Names

Thioredoxin 3; AtTRX3

UniProt Primary Accession

Q42403

UniProt Related Accession

Q42403

UniProt Comments

Thiol-disulfide oxidoreductase that possesses disulfide reductase and insulin disulfide bonds reducing activities. Heat shock causes oligomerization and formation of high molecular weight (HMW) complexes with concomitant functional switching from a disulfide reductase to chaperone.

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