

TPR repeat-containing thioredoxin TDX (TDX), Recombinant Protein

Cat RP00266

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

mg (Baculovirus)/ 1 mg (E-Coli)/ 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 TPR repeat-containing thioredoxin TDX (TDX)

Product Gene Name

TDX recombinant protein

Product Synonym Gene Name

TDX

Purity

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

Sequence

MVDAIQVAEL RRFVEQLKLN PSILHDPSTLV FFKEYLRSLG AQVPKIEKTE RDYEDKAETK PSFSPKHDDD
DDDIMESDVE LDNSDVVEPD NEPPQPMGDP TAEVTDENRD DAQSEKSKAM EAISDGRFDE AIEHLTKAVM
LNPTSAILYA TRASVFLKVK KPNAAIRSAN VALQFNSTSA KGYKSRGMAK AMLGQWEEAA ADLHVASKLD
YDEEIGTMLK KVEPNARKIE EHRRKYQRLR KEKELQRAER ERRKQQEAQE REAQAALNDG EVISIHSTSE
LEAKTKAAKK ASRLILYFT ATWCGPCRYM SPLYSNLATQ HSRVFLKVD IDKANDVAAS WNISSVPTFC
FIRDGKEVDK VVGADKGSLE QKIAQHSSSK

Sequence Positions

1-380, 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

41,910 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

TPR repeat-containing thioredoxin

NCBI Accession

NP_001078175.1

NCBI GI

145332619

NCBI GenBank Nucleotide

NM_001084706.1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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

NCBI GeneID

821056

NCBI Official Full Name

tetratricopeptide domain-containing thioredoxin

NCBI Official Symbol

TDX

NCBI Official Synonym Symbols

ARABIDOPSIS THALIANA HSP70-INTERACTING PROTEIN 2; AT3G17870; ATHIP2; ATTDX; HIP; HSC-70 INTERACTING PROTEIN; tetratricopeptide domain-containing thioredoxin

NCBI Protein Information

tetratricopeptide domain-containing thioredoxin

NCBI Summary

Encodes a thioredoxin-like disulfide reductase. The protein interacts with the yeast Hsp70 protein Ssb2 in vitro. This interaction is sensitive to the redox status of the thioredoxin domain of AtTDX.

UniProt Gene Name

TDX

UniProt Synonym Gene Names

AtHIP2; AtTDX

UniProt Protein Name

TPR repeat-containing thioredoxin TDX

UniProt Synonym Protein Names

HSP70-interacting protein 2; AtHIP2; Tetratricoredoxin; AtTDX

UniProt Primary Accession

Q8VWG7

UniProt Secondary Accession

Q7XJ63; Q8LG82; Q9LVI2; Q9LVI3

UniProt Related Accession

Q8VWG7

UniProt Comments

Thiol-disulfide oxidoreductase that possesses insulin disulfide bonds reducing activity, disulfide reductase, foldase chaperone and holdase chaperone activities. Heat shock causes oligomerization and formation of high molecular weight (HMW) complexes with concomitant functional switching from a disulfide reductase and foldase chaperone to a holdase chaperone. May interact with HSP70 proteins through the TPR repeats.

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