

# Thioredoxin F-type, chloroplastic (Trx-F), Recombinant Protein

Cat RP19643

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)  
Spinacia oleracea (Spinach)

## Full Product Name

Recombinant Spinacia oleracea Thioredoxin F-type, chloroplastic

## Product Gene Name

Trx-F recombinant protein

## Purity

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

## Sequence

MEAIVGKVT E VNKDTFWPIV KAAGDKPVVL DMFTQWCGPC KAMAPKYEKL AEEYLDVIFL KLDCNQENKT  
LAKELGIRVV PTFKILKENS VVGEVTGAKY DKLLLEAIQAA RSS

## Sequence Positions

78-190, 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

21,024 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 #

P09856.2

## NCBI GI #

135748

## NCBI Official Full Name

Thioredoxin F-type, chloroplastic

## UniProt Gene Name

Trx-F

## UniProt Synonym Gene Names

Trx-F

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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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*

**UniProt Protein Name**  
*mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*  
Thioredoxin F-type, chloroplastic

## UniProt Primary Accession #

P09856

## UniProt Comments

Participates in various redox reactions through the reversible oxidation of the active center dithiol to a disulfide. The F form is known to activate a number of enzymes of the photosynthetic carbon cycle.

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