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# Human recombinant protein Thioredoxin

**Human Recombinant Thioredoxin**
**Catalog # PBV10544r**

## Specification

### Human recombinant protein Thioredoxin - Product info

| | |
|---|---|
| Primary Accession | P10599 |
| Concentration | 1 |
| Calculated MW | 11.7 kDa (105 aa) KDa |

### Human recombinant protein Thioredoxin - Additional Info

| | |
|---|---|
| Gene ID | 7295 |
| Gene Symbol | TXN |
| **Other Names** | |
| TXN, TRX, TRX1 | |
| Gene Source | Human |
| Source | E. coli |
| Assay&Purity | SDS-PAGE; ≥95% |
| Assay2&Purity2 | N/A; |
| Recombinant | Yes |
| Sequence | MVKQIESKTA FQEALDAAGD KLVVVDFSAT WCGPCKMIKP FFHSLSEKYS NVIFLEVDVD DCQDVASECE VKCMPTFQFF KKGQKVGEFS GANKEKLEAT INELV |

**Format**
Liquid

**Storage**
-80°C; 1 mg/ml solution in PBS (pH 7.4).

### Human recombinant protein Thioredoxin - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

### Human recombinant protein Thioredoxin - Images

### Human recombinant protein Thioredoxin - Background

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Thioredoxin (Trx) is a low molecular weight redox protein. Trx contains a redox active disulfide/dithiol group within the conserved Cys-Gly-Pro-Cys active site. It is involved in the first unique step in DNA synthesis. Trx also provides control over a number of transcription factors affecting cell proliferation and death through a mechanism referred to as redox regulation. Recombinant human thioredoxin-1 was overexpressed in E. coli and purified by using conventional chromatography techniques.

**Human recombinant protein Thioredoxin - References**

Wollman E.E.,et al.J. Biol. Chem. 263:15506-15512(1988).
Tagaya Y.,et al.EMBO J. 8:757-764(1989).
Tonissen K.F.,et al.Gene 102:221-228(1991).
Reddy P.G.,et al.Submitted (JUN-2000) to the EMBL/GenBank/DDBJ databases.
Liu A.,et al.Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases.