

## Recombinant E. coli trxA Protein

**Cat. No.** trxA-005E    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Active recombinant E. coli oxidized Trx1 without tag was expressed in E. coli.                                                                                                                                                                                     |
| <b>Species</b>          | E.coli                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                             |
| <b>Description</b>      | Thioredoxins are small electron-transfer proteins which contain a cysteine disulfide/dithiol active site.                                                                                                                                                          |
| <b>Molecular Mass</b>   | 11.7 kDa                                                                                                                                                                                                                                                           |
| <b>Purity</b>           | ≥85% estimated by SDS-PAGE                                                                                                                                                                                                                                         |
| <b>Unit Definition</b>  | One unit is defined as the amount of enzyme required to produce 1 nmol of eosin per minute at 37 centigrade in 50 mM Tris-HCl, pH 7.5, with 0.2 mg/ml BSA and 1 mM EDTA containing 8.3 μM eosin-labeled insulin, 250 μM NADPH, and 0.2 U/mL thioredoxin reductase. |
| <b>Applications</b>     | Enzyme assay and WB                                                                                                                                                                                                                                                |
| <b>Stability</b>        | ≥ 6 months                                                                                                                                                                                                                                                         |
| <b>Storage</b>          | 4 centigrade                                                                                                                                                                                                                                                       |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, pH 7.5, with 1 mM EDTA                                                                                                                                                                                                                             |

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## GENE INFORMATION

**Gene Name** [trxA thioredoxin 1 \[ Escherichia coli str. K-12 substr. MG1655 \]](#)

**Official Symbol** [trxA](#)

**Synonyms** [trxA](#); thioredoxin 1; dasC; ECK3773; fipA; tsnC; thioredoxin 1

**Gene ID** [948289](#)

**Protein Refseq** [NP\\_418228](#)

**UniProt ID** [P0AA25](#)

**Thioredoxin 1 Activity** Thioredoxin 1 activity was determined using Thioredoxin Fluorescent Activity Assay Kit with 0.54 µg/mL eosin-labeled insulin as a substrate.

**SDS-PAGE of Thioredoxin 1**

Lane 1: MW Markers  
Lane 2: Thioredoxin 1 (2 µg)  
Lane 3: Thioredoxin 1 (4 µg)

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