

Recombinant E. coli trxA Protein

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

SPECIFICATION

Product Overview	Active recombinant E. coli oxidized Trx1 without tag was expressed in E. coli.
Species	E.coli
Source	E.coli
Description	Thioredoxins are small electron-transfer proteins which contain a cysteine disulfide/dithiol active site.
Molecular Mass	11.7 kDa
Purity	≥85% estimated by SDS-PAGE
Unit Definition	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.
Applications	Enzyme assay and WB
Stability	≥ 6 months
Storage	4 centigrade
Storage Buffer	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](#)**SDS-PAGE of
Thioredoxin 1**Lane 1: MW Markers
Lane 2: Thioredoxin 1 (2 µg)
Lane 3: Thioredoxin 1 (4 µg)**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.

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