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
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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