

## Recombinant Mouse Txn1 Protein

**Cat. No.** Txn1-003M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Active recombinant mouse thioredoxin 1 without tag was expressed in E. coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	Participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyzes dithiol-disulfide exchange reactions.
<b>Molecular Mass</b>	11.6 kDa
<b>Purity</b>	≥75% 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 50mM Tris-HCl, pH7.5, with 0.2 mg/mL BSA, and 1mM EDTA containing 8.3μM eosin-labeled insulin, 250μM NADPH, and 0.2U/mL lthioredoxin reductase.
<b>Stability</b>	≥ 6 months
<b>Storage</b>	4 centigrade
<b>Storage Buffer</b>	Lyophilized in 50 mM Tris-HCl, pH 7.5, with 1 mM EDTA

### GENE INFORMATION

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Gene Name</b>	Txn1 thioredoxin 1 [ Mus musculus (house mouse) ]
<b>Official Symbol</b>	Txn1
<b>Synonyms</b>	Txn1; thioredoxin 1; ADF; Txn; Trx1; AW550880; thioredoxin; ATL-derived factor; trx
<b>Gene ID</b>	22166
<b>mRNA Refseq</b>	NM_011660.3
<b>Protein Refseq</b>	NP_035790
<b>UniProt ID</b>	P10639
<b>SDS-PAGE of Thioredoxin 1</b>	<p>Lane 1: MW Markers</p> <p>Lane 2: Thioredoxin 1 (2 µg)</p> <p>Lane 3: Thioredoxin 1 (4 µg)</p>
<b>Thioredoxin 1 (Mouse) Activity</b>	Thioredoxin 1

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