

## Active Recombinant Mouse Txn1, His-tagged

**Cat. No.** Txn1-538M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Mouse
<b>Description</b>	Txn1 also known as thioredoxin 1, was an important protein in mouse that has many functions, such as enzyme binding, poly(A) RNA binding.
<b>Form</b>	Lyophilized from 0.5% NH <sub>4</sub> HCO <sub>3</sub> .
<b>Bio-activity</b>	Fully active with mammalian thioredoxin reductase. Activity can be measured with the thioredoxin-dependent reduction of insulin using rat recombinant thioredoxin reductase. The test mixture should contain 160 $\mu$ M insulin and 0.2 mM NADPH in 0.1 M potassium phosphate, pH 7.0, containing 2 mM EDTA. In the presence of 5 $\mu$ M mouse thioredoxin, 7 nM mammalian thioredoxin reductase will give an absorbance decrease of approximately 0.10/min at 340 nm.
<b>Notes</b>	Make sure to reconstitute all of the lyophilized protein in the ampoule. After adding buffer, close the screw-cap again, shake vigorously, then centrifuge shortly, in order to recover liquid from tube cap and walls.
<b>Stability</b>	6 months
<b>Storage</b>	Keep at 4 centigrade or alternatively reconstituted protein in aliquots at -20 centigrade. Lyophilized substance.
<b>Reconstitution</b>	Reconstitute with H <sub>2</sub> O or buffer.

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## GENE INFORMATION

<b>Gene Name</b>	Txn1 thioredoxin 1 [ Mus musculus ]
<b>Official Symbol</b>	Txn1
<b>Synonyms</b>	ADF; Txn; Trx1; AW550880; thioredoxin; ATL-derived factor; trx
<b>Gene ID</b>	<a href="#">22166</a>
<b>mRNA Refseq</b>	<a href="#">NM_011660</a>
<b>Protein Refseq</b>	<a href="#">NP_035790</a>
<b>UniProt ID</b>	P10639
<b>Chromosome Location</b>	4 B3; 4 31.87 cM
<b>Pathway</b>	Cellular Senescence, organism-specific biosystem; Cellular responses to stress, organism-specific biosystem; Gene Expression, organism-specific biosystem
<b>Function</b>	enzyme binding; oxidoreductase activity, acting on a sulfur group of donors, disulfide as acceptor; peptide disulfide oxidoreductase activity

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