

Recombinant Yeast Thioredoxin 1 (DAG4448)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Yeast Thioredoxin 1
Species	Yeast
Conjugate	Unconjugated
Applications	immunogen
Concentration	1.0 mg/ml
Buffer	20mM Tris, pH 7.5/10mM NaCl/1mM EDTA
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	Thioredoxins (Trx) are small, multi-functional proteins with oxidoreductase activity and are ubiquitous in essentially all living cells. Trx contains a redox-active disulfide/dithiol group within the conserved Cys-Gly-Pro-Cys active site. The two cysteine residues in the conserved active centers can be oxidized to form intramolecular disulfide bonds. Reduction of the active site disulfide in oxidized Trx is catalyzed by Trx reductase with NADPH as the electron donor. The reduced Trx is a hydrogen donor for ribonucleotide reductase, the essential enzyme for DNA synthesis, and a potent general protein disulfide targets for reduction by Trx include protein disulfide –isomerase (PDI) and a number of transcription factors such as p53, NFkB and AP-1 (T1–151). Trx is also capable of removing H2O2, particularly when it is coupled with either mothinging sulfavide reductase or several informers of paravired oxing.
Keywords	methionine sulfoxide reductase or several isoforms of peroxiredoxins. TXN; thioredoxin; TRX; ADF; Surface associated sulphydryl protein; TXN protein; ATL derived

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