

Thioredoxin-1 Active Protein | TRX1 active protein

Recombinant Thioredoxin-1

CATALOG # AAA48313	HOST E Coli	APPLICATIONS SDS-Page
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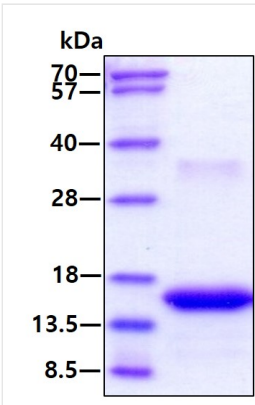
PRODUCT SYNONYMS

Thioredoxin-1; Recombinant Thioredoxin-1; TRX2; Thioredoxin I; TR-I; Thioredoxin-2; ADF; Surface associated sulphhydryl protein; TXN protein; ATL derived factor; DKFZp686B1993; MGC61975; SASP; Thioredoxin; TRDX; TRX; TRX 1; TXN; TRX1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>90% by SDS-PAGE
Form/Format	Liquid; In Phosphate-Buffered Saline (pH 7.4) Containing 10% Glycerol.
Concentration	1mg/ml (determined by BCA assay) (varies by lot)
Sequence Positions	1-105aa
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMVKLIES KEAFQEALAA AGDKLVVWDF SATWCGPCKM IKPFFHSLCD KYSNVVFLEV DVDDCQDVAA DCEVKCMPTF QFYKKGQKVG EFSGANKEKL EASITEYA
Sequence Length	105
Applicable Applications for TRX1 active protein	Enzyme Activity, SDS-PAGE
Species	Mouse
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Tag	His-Tag
Biological Activity	Specific activity is >60 A650/cm/min/mg, obtained by measuring the increase of insulin precipitation in absorbance at 650 nm resulting from the reduction of insulin.
Preparation and Storage	For long term storage, aliquot and store at -20 degree C to -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for TRX1 active protein	Thioredoxin-1 is a low molecular weight redox protein. Thioredoxin-1 contains a redox active disulfide/dithiol group within the conserved Cys-Gly-Pro-Cys active site. It is involved in the first unique step in DNA synthesis. Thioredoxin-1 also provides control over a number of transcription factors affecting cell proliferation and death through a mechanism referred to as redox regulation. Recombinant Mouse Thioredoxin-1 was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for TRX1 active protein	Homeostasis; Protease inhibitors; Redox Proteins; Signal Transduction
References	Pigiet VP., et al.(1986) Proc. Natl.Acad.Sci. uSA 83(20):7643-7. Lundstrom J., et al. (1990) J.Biol.Chem. 265(16):9114-20.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6755911
NCBI GeneID	22166
NCBI Accession #	NP_035790.1
NCBI GenBank Nucleotide #	NP_035790.1
UniProt Accession #	P10639
Molecular Weight	14.1 kDa (128aa) confirmed by MALDI-TOF
NCBI Official Full Name	thioredoxin
NCBI Official Synonym Full Names	thioredoxin 1
NCBI Official Symbol	Txn1
NCBI Official Synonym Symbols	ADF; Txn; Trx1; AW550880
NCBI Protein Information	thioredoxin
UniProt Protein Name	Thioredoxin
UniProt Gene Name	Txn
UniProt Synonym Gene Names	Txn1; Trx; ADF
UniProt Entry Name	THIO_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-trx1-active-protein/thioredoxin-1/48313>