

## Thioredoxin-1/TRXA Protein, E.coli (His)

Cat. No.:	HY-P71496
Synonyms:	trxA; fipA; tsnC; b3781; JW5856; Thioredoxin 1; Trx-1
Species:	E.coli
Source:	E. coli
Accession:	P0AA25 (2S-109A)
Gene ID:	69484444
Molecular Weight:	Approximately 15.7 kDa

### PROPERTIES

AA Sequence	<p>           S D K I I H L T D D      S F D T D V L K A D      G A I L V D F W A E      W C G P C K M I A P            I L D E I A D E Y Q      G K L T V A K L N I      D Q N P G T A P K Y      G I R G I P T L L L            F K N G E V A A T K      V G A L S K G Q L K      E F L D A N L A         </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>Thioredoxin-1/TRXA Protein actively engages in diverse redox reactions by facilitating the reversible oxidation of its active center dithiol to form a disulfide bond, and it catalyzes critical dithiol-disulfide exchange reactions. Operating as a monomer, Thioredoxin-1 demonstrates versatility in its redox functions. Notably, it interacts with bacteriophage T3 DNA polymerase, suggesting its involvement in molecular processes beyond its primary redox activities.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA