

Thioredoxin Human Recombinant, His Tag

Item Number	rAP-4950
Synonyms	Thioredoxin, ATL-derived factor, ADF, Surface-associated sulphydryl protein, SASP, TXN, TRDX, TRX, TRX1, MGC61975, DKFZp686B1993.
Description	Thioredoxin Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 125 amino acids (1-105 a.a.) and having a molecular mass of 13.9 kDa (Molecular weight on SDS-PAGE will appear higher). TXN protein is fused to a 20 amino acid His-Tag at N-terminus and purified by
Uniprot Accession Number	P10301
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MVKQIESKTA FQEALDAAGD KLVVVDFSAT WCGPCKMIKP FFHSLSEKYS NVIFLEVVDV DCQDVASECE VKCMPTFQFF KKGQKVGEFS GANKEKLEAT INELV.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Formulation and Purity	TXN1 solution containing 1x PBS pH 7.4. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	Specific activity is 7-10 A650/min/mg, obtained by measuring the increase of insulin precipitation in absorbance at 650 nm resulting from the reduction of insulin.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**