Datasheet for ABIN7319079

TXN Protein (His tag)

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Overview

Quantity:	50 µg
Target:	TXN
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TXN protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Thioredoxin/TXN Protein (His Tag)(Active)
Sequence:	Met 1-Val105
Characteristics:	Recombinant Human Thioredoxin is produced by our E.coli expression system and the target gene encoding Met1-Val105 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to catalyze the reduction of insulin. The reaction leads to precipitation, which can be measured by absorbance at 650 nm. The specific activity is 0.2-1 Abs/min/mg, as measured under the described conditions.

Target Details

Target:	TXN

Target Details

Alternative Name:	Thioredoxin/TXN (TXN Products)
Background:	Background: Thioredoxin (TXN) is a member of the Thioredoxin family. Thioredoxin exists as a disulfide-linked homodimer and contains one Thioredoxin domain. Thioredoxin is up-regulated by ionizing radiation. Thioredoxin participates in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyzes dithiol-disulfide exchange reactions. Thioredoxin also plays a role in the reversible S-nitrosylation of cysteine residues in target proteins, and thereby contributes to the response to intracellular nitric oxide. Synonym: Thioredoxin, Trx, ATL-Derived Factor, ADF, Surface-Associated Sulphydryl Protein, SASP, TXN, TRDX, TRX, TRX1
Molecular Weight:	13.9 kDa
UniProt:	P10599
Pathways:	Carbohydrate Homeostasis, Cell RedoxHomeostasis

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 20 mM PB,150 mM NaCl,PH7.2.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.