
Product Data Sheet

Product Name: TXN2 Human
 Cat. No.: GP24924
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Thioredoxin mitochondrial; Thioredoxin-2; TXN2; MTRX; TRX2; MT-TRX; TRX-2; TXN-2.		
Amino Acid Sequence	MTTFNIQDGP DFQDRVVNSE TPVVDFHAQ WCGPCKILGP RLEKMVAKQH GKVVMKVDI DDHTDLAIEY EVSAVPTVLA MKNGDVVDKF VGIKDEDQLE AFLKKLIG.		
Formulation	TXN2 protein solution contains 1x PBS pH-7.4.		

Introduction

Thioredoxin-2 is a low molecular weight redox protein. TRX2 contains a redox active disulfide/dithiol group within the conserved Cys-Gly-Pro-Cys active site. The TXN2 is involved in the regulation of the mitochondrial membrane potential and in protection against oxidant-induced apoptosis. Upon stimulation of Fas, TXN2 mediates denitrosylation of mitochondria-associated caspase-3, a process required for caspase-3 activation, and promoted apoptosis. TRX2 is important at low oxidative stress conditions. MTRX is involved in the regulation of the mitochondrial membrane potential and cell death. Mitochondrial thioredoxin plays an important roles in protection against oxidant-induced apoptosis. Thioredoxin1 and thioredoxin2 have opposed regulatory functions on hypoxia-inducible factor-1alpha.

Biological Activity

Specific activity is 3-4 A650/min/mg, obtained by measuring the increase of INS precipitation in absorbance at 650 nm resulting from the reduction of INS.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

MTRX Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 108 amino acids and having a molecular mass of 11 kDa.

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