9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

TXN2 Human

Thioredoxin-2 Human Recombinant
RCP2479

Product Overview

Name	TXN2 Human
Description	
Thioredoxin-2 Human Recombinant	
Accession (Primary)	Q99757
Synonyms	
Thioredoxin mitochondrial, Thioredoxin-2, TXN2, MTRX, TRX2, MT-TRX, TRX-2, TXN-2.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
TXN2 protein solution contains 1x PBS pH-7.4.	
Stability	
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.	
Purity	
Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
MTTFNIQDGP DFQDRVVNSE TPVVVDFHAQ WCGPCKILGP RLEKMVAKQH GKVVMAKVDI DDHTDLAIEY EVSAVPTVLA MKNGDVVDKF VGIKDEDQLE AFLKKLIG.	

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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.

Precautions

TXN2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q99757)