

TXN2 Human

Description: 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.

Catalog #: PRPS-632

Synonyms: Thioredoxin mitochondrial, Thioredoxin-2, TXN2, MTRX, TRX2, MT-TRX, TRX-2, TXN-2.

For research use only.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MTTFNIQDGP DFQDRVVNSE TPVVVDFHAQ WCGPCKILGP
RLEKMLVAKQH GKVVMAKVDI DDHTDLAIEY EVSAVPTVLA MKNGDVVDKF VGIKDEDQLE
AFLKKLIG.

Purity: Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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 insulin precipitation in absorbance at 650 nm resulting from the reduction of insulin.

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