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TrxR Yeast

Catalog #:ENPS-285

For research use only.

Description: Thioredoxin Reductase (NADPH) Yeast Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain having a molecular mass of 36 kDa. Thioredoxin Reductase is purified by proprietary chromatographic techniques.

Synonyms: Thioredoxin Reductase (NADPH), NTR, TrxR.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Purity: Greater than 98.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation:
Each mg of protein contains 20mM phosphate buffer pH 7.4 and 0.15M sodium chloride.

Stability:
NTR althoμgh stable at 4°C for 3 weeks, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.

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

Solubility:
It is recommended to reconstitute the lyophilized NTR in sterile 18M-cm H2O.

Introduction:
Thioredoxin reductase (TrxR/NTR), an enzyme belonging to the flavoprotein family of pyridine nucleotide-disulfide oxidoreductases. Thioredoxin reductase (TrxR), a component of the thioredoxin system, including thioredoxin (Trx) and NADPH, catalyzes the transfer of electrons from NADPH to Trx, acts as a reductant of disulfide-containing proteins and participates in the defense system against oxidative stresses.

Biological Activity:
The specific activity was found to be 5 IU/mg.

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