
Product Data Sheet

Product Name: TrxR Yeast
Cat. No.: GP22331
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Thioredoxin Reductase (NADPH); NTR; TrxR.		
Solubility	It is recommended to reconstitute the lyophilized NTR in sterile 18MΩ-cm H ₂ O.		
Formulation	Each mg of protein contains 20mM phosphate buffer pH 7.4.		

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 5.8 IU/mg.

Stability

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

Background

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.

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

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