83103 Avenue 48, Ste.1B #204
Coachella, CA 92236 USA
Phone : +1.6268339877
Email : info@cali-bio.com

California Bioscience

Product Datasheet

Product Name	Thioredoxin Reductase (NADPH) Yeast Recombinant
Cata No	CB500457
Source	*Escherichia Coli.*
Synonyms	Thioredoxin Reductase (NADPH), NTR, TrxR.

Description

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.
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.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

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

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