OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-858-888-7900
Fax: +1-858-888-7904
US-info@acris-antibodies.com

OriGene EU

Acris Antibodies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info@acris-antibodies.com

Yeast Thioredoxin Reductase - Purified

Catalog No.: AR10712PU-N

Quantity: 20 µg

Background: 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.

Species: Yeast

Source: E. coli

Format:
State: Sterile Filtered White lyophilized (freeze-dried) powder
Purity: › 98.0% as determined by both RP-HPLC and SDS-PAGE analysis
Buffer System: Each mg of protein contains 20mM Phosphate buffer pH 7.4 and 0.15M Sodium Chloride
Reconstitution: Restore the lyophilized NTR in sterile 18MΩ-cm^{-1} H_2O.

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.
Biological Activity: The specific activity was found to be 5 IU/mg.
Unit Definition: One unit equals the change in absorbance at 412 nm per minute at 25°C using 0.2mM NADPH containing 5mM DTNB (pH 7.0).
Molecular weight: 36 kDa

Storage: Prior to reconstitution store at 2-8°C for one month or desiccated below -18°C.
Following reconstitution store undiluted at 2-8°C for one month
or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.