

General Thioredoxin Reductase Assay Kit | trxB assay kit

Thioredoxin Reductase Microplate Assay Kit

CATALOG # AAA261570	REACTIVITY General	APPLICATIONS Functional Assay
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PRODUCT SYNONYMS

Thioredoxin Reductase; Thioredoxin Reductase Microplate Assay Kit; EC 1.8.1.9; TR; TrxR; Thioredoxin-disulfide reductase; NADP-thioredoxin reductase; NADPH-thioredoxin reductase; NADPH:oxidized thioredoxin oxidoreductase; Thioredoxin reductase (NADPH); trxB assay kit

PRODUCT SPECIFICATIONS

Reactivity	General
Sequence Length	587
Samples	Urine, Serum, Plasma, Tissue extracts, Cell lysate, Cell culture media and Other biological fluids Samples
Applicable Applications for trxB assay kit	FA (Functional Assay)
Preparation and Storage	Shipped and store at 4 degree C for 6 months.

ADDITIONAL INFORMATION

Related Product Information for trxB assay kit	Background: Thioredoxin reductase (TrxR) (EC 1.8.1.9) is a ubiquitous enzyme which is involved in many cellular processes such as cell growth, p53 activity, and protection against oxidation stress, etc. The mammalian TrxR reduces thioredoxins as well as non-disulfide substrates such as selenite, lipoic acids, lipid hydroperoxides, and hydrogen peroxide. Thioredoxin Reductase Microplate Assay Kit provides a convenient colorimetric assay for detecting TrxR activity in various samples. In the assay TrxR catalyzes the reduction of 5, 5'-dithiobis (2-nitrobenzoic) acid (DTNB) with NADPH to 5-thio-2-nitrobenzoic acid (TNB2-), which generate a strong yellow color (lambda _{max} = 412 nm).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	32471448
NCBI GeneID	1789917
NCBI Accession #	NP_864441.1
NCBI GenBank Nucleotide #	NC_005027.1
NCBI Official Full Name	thioredoxin reductase
NCBI Official Symbol	trxB
NCBI Protein Information	thioredoxin reductase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.