Hamster Thioredoxin (TRX) ELISA Kit

Catalog No: #EK11350

Package Size: #EK11350-1 48T #EK11350-2 96T

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Description

Product Name	Hamster Thioredoxin (TRX) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Hamster (Mesocricetus; Cricetulus)
Other Names	RP11-427L11.1; DKFZp686B1993; MGC61975; TRX; TRX1;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:1.56-100 ng/mL

Sensitivity:0.72 mg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate TRX in samples. An antibody specific for TRX has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTRX present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TRX is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TRX bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Thioredoxins are proteins that act as antioxidants by facilitating the reduction of other proteins by cysteine thiol-disulfide exchange. Thioredoxins are found in nearly all known organisms and are essential for life in mammals.Thioredoxins are characterized at the level of their amino acid sequence by the presence of two vicinal cysteines in a CXXC motif. These two cysteines are the key to the ability of thioredoxin to reduce other proteins.

Thioredoxin proteins also have a characteristic tertiary structure termed the thioredoxin fold.The thioredoxins are kept in the reduced state by the flavoenzyme thioredoxin reductase, in a NADPH-dependent reaction. Thioredoxins act as electron donors to peroxidases and ribonucleotide reductase.

Note: This product is for in vitro research use only