

Thioredoxin Peroxidase (TPX) Assay Kit | TPX assay kit

CheKine™ Thioredoxin Peroxidase (TPX) Colorimetric Assay Kit

CATALOG #
AAA332461

PRODUCT SYNONYMS

Thioredoxin Peroxidase (TPX); CheKine™ Thioredoxin Peroxidase (TPX) Colorimetric Assay Kit; TPX assay kit

PRODUCT SPECIFICATIONS

Sequence Length	168
Samples	Serum, Plasma, Animal Tissues, Cells, Bacteria
Preparation and Storage	Storage at -20 degree C and keep from light immediately upon receipt. Kit has a storage time of 12 months from receipt. Refer to list of materials supplied for storage conditions of individual components. Shipping: Ice packs

ADDITIONAL INFORMATION

Related Product Information for TPX assay kit	Principle of the Assay: Thioredoxin Peroxidase (TPX) belongs to the family of peroxidases. It mainly achieves anti-oxidation by reducing hydrogen peroxide and some hydroperoxides in the body. It functions similarly to GPX and is one of the key enzymes in the glutathione redox cycle. TPX is ubiquitous in various organisms, such as yeast, plants, animals, protozoa, parasites, bacteria, and archaea, and is highly conservative in evolution. TPX is closely related to the regulation of cell proliferation, differentiation, apoptosis and tumorigenesis. The main functions of TPX include cell detoxification, anti-oxidation, and regulation of signal transduction and immune response mediated by hydrogen peroxide. CheKine™ Thioredoxin Peroxidase (TPX) Colorimetric Assay Kit provides a simple method for detecting TPX in a variety of biological samples, such as Serum, Plasma, Animal Tissues, Cells, Bacteria. TPX catalyzes H ₂ O ₂ to oxidize dithiothreitol (DTT). The absorption wavelength of H ₂ O ₂ is 240nm. By measuring the decrease rate of absorbance at 240 nm, TPX activity can be calculated by the Total activity subtracting H ₂ O ₂ catalyzed by catalase (CAT). Therefore, this kit can measure TPX and CAT activities of samples simultaneously.
Product Categories/Family for TPX assay kit	Cell Metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	67473489
UniProt Accession #	P0A862
NCBI Official Full Name	Thiol peroxidase
UniProt Protein Name	Thiol peroxidase
UniProt Gene Name	tpx
UniProt Synonym Gene Names	yzzJ
UniProt Entry Name	TPX_ECOLI

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.