

## TPX E.coli

**Description:** TPX produced in E.Coli is a single, non-glycosylated polypeptide chain containing 188 amino acids (1-168 a.a.) and having a molecular mass of 19.9kDa. TPX is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-142

For research use only.

**Synonyms:** Thiol peroxidase, Scavengase P20, tpx, yzzJ, b1324, JW1317.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered liquid formulation 1 mg/ml.

**Amino Acid Sequence:** MGSSHHHHH SSGLVPRGSH MSQTVHFQGN PVTVANSIPQ  
AGSKAQFTFL VAKDLS DVT L GQFAGKRKVL NIFPSIDTGV CAASVRKFNQ LATEIDNTVV  
LCISADLPFA QSRFCGA EGL NNVITLSTFR NAEFLQAYGV AIADGPLKGL AARAVVVIDE  
NDNVIFS QLV DEITTEPDYE AALAVLKA.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

The Recombinant TPX solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) 10% glycerol, 2mM DTT and 0.1M NaCl.

### Stability:

TPX E.Coli Recombinant although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Lipid hydroperoxide peroxidase (TPX) belongs to the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. TPX has an imperative role in thioredoxin peroxidase activity.

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