

## Recombinant E. coli tpx protein, His-tagged

**Cat. No.** tpx-992E    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant E. coli tpx(1-168aa) fused with His tag at N-terminal was expressed in E. coli.                                                                                                                                                             |
| <b>Species</b>          | E.coli                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 1-168 a.a.                                                                                                                                                                                                                                              |
| <b>Description</b>      | TPX, also known as lipid hydroperoxide peroxidase, is a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. This protein may play an important role in thioredoxin peroxidase activity. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.                                                                                                                                                                    |
| <b>Molecular Mass</b>   | 19.9 kDa (188aa), confirmed by MALDI-TOF                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MSQTVHFQGN PVTVANSIPQ AGSKAQFTFL<br>VAKDLSDVTL GQFAGKRKVL NIFPSIDTGV CAASVRKFNQLATEIDNTVV<br>LCISADLPFA QSRFCGA EGL NNVITLSTFR NAEFLQAYGV AIADGPLKGL<br>AARAVVVIDE NDNVIFS QLV DEITTEPDYEALAVLKA                                  |
| <b>Purity</b>           | >95% by SDS - PAGE                                                                                                                                                                                                                                      |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                |                                                                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b> | Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles. |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                      |                                        |
|----------------------|----------------------------------------|
| <b>Concentration</b> | 1 mg/ml (determined by Bradford assay) |
|----------------------|----------------------------------------|

## GENE INFORMATION

|                  |                                                                                         |
|------------------|-----------------------------------------------------------------------------------------|
| <b>Gene Name</b> | tpx lipid hydroperoxide peroxidase [ <i>Escherichia coli</i> str. K-12 substr. MG1655 ] |
|------------------|-----------------------------------------------------------------------------------------|

|                        |     |
|------------------------|-----|
| <b>Official Symbol</b> | tpx |
|------------------------|-----|

|                 |                  |
|-----------------|------------------|
| <b>Synonyms</b> | thiol peroxidase |
|-----------------|------------------|

|                |        |
|----------------|--------|
| <b>Gene ID</b> | 945880 |
|----------------|--------|

|                    |  |
|--------------------|--|
| <b>mRNA Refseq</b> |  |
|--------------------|--|

|                       |           |
|-----------------------|-----------|
| <b>Protein Refseq</b> | NP_415840 |
|-----------------------|-----------|

|            |  |
|------------|--|
| <b>MIM</b> |  |
|------------|--|

|                   |        |
|-------------------|--------|
| <b>UniProt ID</b> | P0A862 |
|-------------------|--------|

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA