

## Thioredoxin-2 Active Protein | TXN2 active protein

Recombinant Human Thioredoxin-2

|                              |                       |
|------------------------------|-----------------------|
| CATALOG #<br><b>AAA38639</b> | HOST<br><b>E Coli</b> |
|------------------------------|-----------------------|

### PRODUCT SYNONYMS

Thioredoxin-2; Recombinant Human Thioredoxin-2; Thioredoxin mitochondrial; TXN2; MTRX; TRX2; MT-TRX; TRX-2; TXN-2.; TXN2 active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                        |
| Purity/Purification     | Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.                                                                                                                                                       |
| Form/Format             | (1mg/ml)TXN2 protein solution contains 1x PBS pH-7.4.<br>Sterile Filtered colorless solution.                                                                                                                                                 |
| Sequence                | MTTFNIQDGP DFQDRVNSE TPVVVDFHAQ WCGPCKILGP RLEKMVAQKH GKVVMKAVDI DDHTDLAIEY<br>EVSAVPTVLA MKNGDVVDKF VGIKDEDQLE AFLKKLIG                                                                                                                      |
| Sequence Length         | 166                                                                                                                                                                                                                                           |
| Biological Activity     | Specific activity is 3-4 A650/min/mg, obtained by measuring the increase of insulin precipitation in absorbance at 650 nm resulting from the reduction of insulin.                                                                            |
| Preparation and Storage | Store at 4°C if entire vial will be used within 2-4 weeks.<br>Store, frozen at -20°C for longer periods of time.<br>For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).<br>Avoid multiple freeze-thaw cycles. |

### ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                           |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for TXN2 active protein | <b>Description:</b> MTRX Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 108 amino acids and having a molecular mass of 11 kDa. |
| Product Categories/Family for TXN2 active protein   | <a href="#">Recombinant &amp; Natural Proteins</a> ; <a href="#">Recombinant Proteins</a> ; <a href="#">Thioredoxin</a>                                                   |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">21361403</a>                                                                          |
| NCBI GeneID                      | <a href="#">25828</a>                                                                             |
| NCBI Accession #                 | <a href="#">NP_036605.2</a>                                                                       |
| NCBI GenBank Nucleotide #        | <a href="#">NM_012473.3</a>                                                                       |
| UniProt Accession #              | <a href="#">Q99757</a> ; <a href="#">Q5JZA0</a> ; <a href="#">Q6FH60</a> ; <a href="#">Q9UH29</a> |
| Molecular Weight                 | 18,383 Da                                                                                         |
| NCBI Official Full Name          | thioredoxin, mitochondrial                                                                        |
| NCBI Official Synonym Full Names | thioredoxin 2                                                                                     |
| NCBI Official Symbol             | TXN2                                                                                              |

|                               |                                                                      |
|-------------------------------|----------------------------------------------------------------------|
| NCBI Official Synonym Symbols | MTRX; TRX2; MT-TRX                                                   |
| NCBI Protein Information      | thioredoxin, mitochondrial; mitochondrial thioredoxin; thioredoxin-2 |
| UniProt Protein Name          | Thioredoxin, mitochondrial                                           |
| UniProt Gene Name             | <b>TXN2</b>                                                          |
| UniProt Synonym Gene Names    | TRX2; MTRX; Mt-Trx                                                   |
| UniProt Entry Name            | THIOM_HUMAN                                                          |

**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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-txn2-active-protein/thioredoxin-2/38639>