

## Ferredoxin 1 Recombinant Protein | FDX1 recombinant protein

Ferredoxin 1, 61-184aa, Human, T7-tag, E Coli

|                              |                       |                                 |
|------------------------------|-----------------------|---------------------------------|
| CATALOG #<br><b>AAA48550</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>SDS-Page</b> |
|------------------------------|-----------------------|---------------------------------|

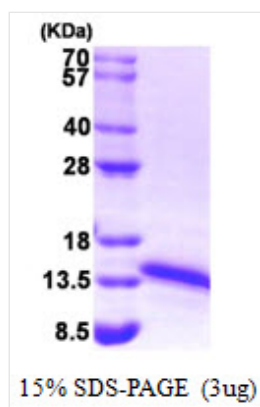
### PRODUCT SYNONYMS

Ferredoxin 1; 61-184aa; Human; T7-tag; E Coli; Adrenodoxin; Adrenal ferredoxin; Hepatoredoxin; ADX; FDX; LOH11CR1D; mitochondrial; FDX1; ; FDX1 recombinant protein

### PRODUCT SPECIFICATIONS

|                                                      |                                                                                                                                                                                |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                 | E Coli                                                                                                                                                                         |
| Purity/Purification                                  | > 90% by SDS-PAGE                                                                                                                                                              |
| Form/Format                                          | Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol                                                                                                               |
| Concentration                                        | 1 mg/ml (determined by Bradford assay) (varies by lot)                                                                                                                         |
| Sequence                                             | MASMTGGQQM GRGSMSSSED KITVHFINRD GETLTTKGKV GDSLLDVVVE NNLDIDGFGA CEGTLACSTC<br>HLIFEDHIYE KLDAITDEEN DMLDLAYGLT DRSRLGCQIC LTKSMDNMTV RVPETVADAR QSIDVGKTS                    |
| Sequence Length                                      | 184                                                                                                                                                                            |
| Applicable Applications for FDX1 recombinant protein | SDS-PAGE                                                                                                                                                                       |
| Tag                                                  | T7 tag                                                                                                                                                                         |
| Domain                                               | 61-184aa                                                                                                                                                                       |
| Endotoxin Level                                      | < 1 EU per 1ug of protein (determined by LAL method)                                                                                                                           |
| Preparation and Storage                              | Can be stored at 2-8 degree C short term (1 week).<br>For long term storage, aliquot and store at -20 degree C or -80 degree C.<br>Avoid repeated freezing and thawing cycles. |

### IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for FDX1 recombinant protein | Ferredoxin1 is a small iron-sulfur protein that transfers electrons from NADPH through ferredoxin reductase to a terminal cytochrome P450. This particular oxidation/reduction system is found in steroidogenic tissues, and is involved with the synthesis of bile acid and vitamin D. It participates in the synthesis of thyroid hormones and transfers electrons from adrenodoxin reductase to the cholesterol side chain cleavage cytochrome P450. Recombinant human Ferredoxin 1 protein, fused to T7-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography. |
| Product Categories/Family for FDX1 recombinant protein   | <a href="#">Redox Proteins</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| References                                               | Mandai T., et al. (2009). FEBS J. 276 (8):2416-29. ; Pichiorri F., et al. (2009). J Biol Chem. 284 (2):1040-9.;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                          |
|----------------------------------|--------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">4758352</a>                                                  |
| NCBI GeneID                      | <a href="#">2230</a>                                                     |
| NCBI Accession #                 | <a href="#">NP_004100</a>                                                |
| NCBI GenBank Nucleotide #        | <a href="#">NM_004109.4</a>                                              |
| UniProt Accession #              | <a href="#">P10109</a> ; <a href="#">Q53YD6</a> ; <a href="#">B0YJ14</a> |
| Molecular Weight                 | 15.0 kDa (139aa), confirmed by MALDI-TOF.                                |
| NCBI Official Full Name          | adrenodoxin, mitochondrial                                               |
| NCBI Official Synonym Full Names | ferredoxin 1                                                             |
| NCBI Official Symbol             | FDX1                                                                     |
| NCBI Official Synonym Symbols    | ADX; FDX; LOH11CR1D                                                      |
| NCBI Protein Information         | adrenodoxin, mitochondrial                                               |
| UniProt Protein Name             | Adrenodoxin, mitochondrial                                               |
| UniProt Gene Name                | <b>FDX1</b>                                                              |
| UniProt Synonym Gene Names       | ADX                                                                      |

**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.