

## Recombinant Mouse Fdxr Protein, Myc/DDK-tagged

**Cat. No.** Fdxr-2983M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length ferredoxin reductase (Fdxr), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                        |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | Serves as the first electron transfer protein in all the mitochondrial P450 systems. Including cholesterol side chain cleavage in all steroidogenic tissues, steroid 11-beta hydroxylation in the adrenal cortex, 25-OH-vitamin D3-24 hydroxylation in the kidney, and sterol C-27 hydroxylation in the liver. |
| <b>Molecular Mass</b>   | 54.2 kDa                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                    |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                  |
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                                                                 |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                                                                                                               |
| <b>Storage Buffer</b>   | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                          |

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## GENE INFORMATION

|                 |                                                                                                                                       |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name       | Fdxr ferredoxin reductase [ Mus musculus (house mouse) ]                                                                              |
| Official Symbol | Fdxr                                                                                                                                  |
| Synonyms        | FDXR; ferredoxin reductase; NADPH:adrenodoxin oxidoreductase, mitochondrial; AR; adrenodoxin reductase; ferredoxin--NADP(+) reductase |
| Gene ID         | 14149                                                                                                                                 |
| mRNA Refseq     | NM_007997                                                                                                                             |
| Protein Refseq  | NP_032023                                                                                                                             |
| UniProt ID      | Q61578                                                                                                                                |

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