

Recombinant Human Ferredoxin 1, T7-tagged

Cat. No. FDX1-483H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Ferredoxin 1 protein, fused to T7-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW = 15.0 kDa (139aa).
Species	Human
Source	E.coli
Description	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.
Amino Acid Sequence	MASMTGGQQM GRGSMSSSED KITVHFINRD GETLTTKGKV GDSLLDVVVE NNLDIDGFGA CEGTLACSTC HLIFEDHIYE KLDAITDEEN DMLDLAYGLT DRSRLGCQIC LTKSMDNMTV RVPETVADAR QSIDVGKTS.
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 10% Glycerol.
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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Endotoxin Level < 1.0 EU per 1 µg of protein (determined by LAL method).

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name [FDX1 ferredoxin 1 \[Homo sapiens \]](#)

Synonyms FDX1; ferredoxin 1; ADX; FDX; LOH11CR1D; adrenodoxin; mitochondrial adrenodoxin; Adrenodoxin, mitochondrial; Adrenal ferredoxin; Ferredoxin-1; Hepatoredoxin; mitochondrial adrenodoxin

Gene ID [2230](#)

mRNA Refseq [NM_004109](#)

Protein Refseq [NP_004100](#)

MIM [103260](#)

UniProt ID [P10109](#)

Chromosome Location 11q22.3

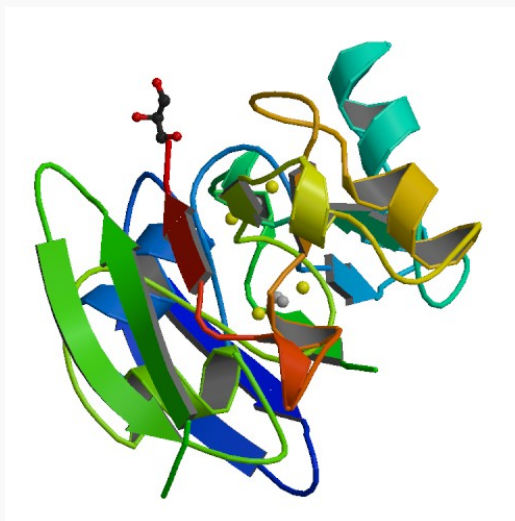
Function 2 iron, 2 sulfur cluster binding; electron carrier activity; iron ion binding; metal ion binding

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