

# Recombinant human Ferredoxin 1/FDX1 protein

Catalog Number: ATGP0359

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

61-184aa

### UniProt No.

P10109

### NCBI Accession No.

NP\_004100

### Alternative Names

Adrenodoxin, Adrenal ferredoxin, Hepatoredoxin, ADX, FDX, LOH11CR1D, Adrenodoxin, mitochondrial, FDX1, Ferredoxin 1,

## PRODUCT SPECIFICATION

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### Molecular Weight

15 kDa (139aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-T7-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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

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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.

## Amino acid Sequence

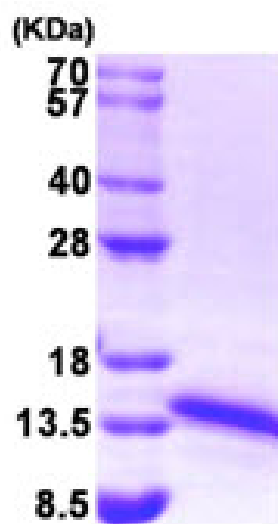
MASMTGGQQM GRGSMSSSED KITVHFINRD GETLTTKGKV GDSLLDVVVE NNLDIDGFGA CEGTLACSTC HLIFEDHIYE  
KLDAITDEEN DMLDLAYGLT DR SRLGCQIC LTKSMDNMTV RVPETVADAR QSIDVGKTS

## General References

Mandai T., et al. (2009). FEBS J. 276(8):2416-29.  
Pichiorri F., et al. (2009). J Biol Chem. 284(2):1040-9.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)