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## Recombinant human Ferredoxin 1/FDX1 protein

Catalog Number: ATGP0359

#### PRODUCT INFORMATION

## **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**

## **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**

## **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**

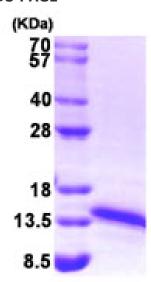
MASMTGGQQM GRGSMSSSED KITVHFINRD GETLTTKGKV GDSLLDVVVE NNLDIDGFGA CEGTLACSTC HLIFEDHIYE KLDAITDEEN DMLDLAYGLT DRSRLGCQIC LTKSMDNMTV RVPETVADAR QSIDVGKTS

## **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**



15% SDS-PAGE (3ug)

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

