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_004100.1

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
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

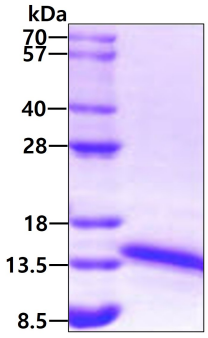
<MASMTGGQQM GRGSM>SSSED KITVHFINRD GETLTTKGKV GDSLLDVVVE NNLDIDGFGA CEGTLACSTC HLIFEDHIYE KLDAITDEEN DMLDLAYGLT DRSRLGCQIC LTKSMDNMTV RVPETVADAR QSIDVGKTS

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



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