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## Product Data Sheet

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Product Name: FDX1 Human  
 Cat. No.: GP23487  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Adrenodoxin mitochondrial; Adrenal ferredoxin; Ferredoxin-1; Hepatoredoxin; FDX1; ADX.		
Amino Acid Sequence	MASMTGGQQM GRGSMSSSED KITVHFINRD GETLTTKGKV GDSLLDVVVE NNLIDIDGFGA CEGTLACSTC HLIFEDHIYE KLDAITDEEN DMLDLAYGLT DRSRLGCQIC LTKSMDNMTV RVPETVADAR QSIDVGKTS.		
Formulation	The FDX1 solution contains 20mM Tris-HCl buffer (pH8.0) and 10% Glycerol.		

### Introduction

Ferredoxin-1 is a small iron-sulfur protein who transfers electrons from NADPH through ferredoxin reductase to a terminal cytochrome P450. This specific oxidation/reduction system is located in steroidogenic tissues, and is involved with the synthesis of bile acid and vitamin D. FDX1 takes part in the synthesis of thyroid hormones and transfers electrons from adrenodoxin reductase to the cholesterol side chain cleavage cytochrome P450. FDX1 supports reactions catalyzed by human microsomal P450s- full length CYP17, truncated CYP17, and truncated CYP21. In addition to the FDX1 at the 11q22 chromosomal locus, there are pseudogenes located on chromosomes 20 and 21.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

FDX1 Human Recombinant fused with a 15 amino acid T7 tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 139 amino acids (61-

**Caution: Product has not been fully validated for medical applications. For research use only.**

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184 a.a.) and having a molecular mass of 15.0kDa. The FDX1 is purified by proprietary chromatographic techniques.

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