www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

FDX1 Human

Description: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 (61-184 a.a.) and having a molecular mass of 15.0kDa.The FDX1 is purified by proprietary chromatographic techniques.

Catalog #:PRPS-720

For research use only.

Synonyms: Adrenodoxin mitochondrial, Adrenal ferredoxin, Ferredoxin-1, Hepatoredoxin, FDX1, ADX.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MASMTGGQQM GRGSMSSSED KITVHFINRD GETLTTKGKV GDSLLDVVVE NNLDIDGFGA CEGTLACSTC HLIFEDHIYE KLDAITDEEN DMLDLAYGLT DRSRLGCQIC LTKSMDNMTV RVPETVADAR QSIDVGKTS.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:
The FDX1 solution contains 20mM Tris-HCl buffer (pH8.0) and 10% Glycerol.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
Ferredoxin-1 is a small iron-sulfur protein who transfers electrons from NADPH throµgh 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 11q22chromosomal locus, there are pseudogenes located on chromosomes 20 and 21.

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