

Adrenodoxin, mitochondrial Protein, Bovine, Recombinant (His)

General Information

Synonyms:	FDX1;Adrenal ferredoxin;Ferredoxin-1;ADX;Hepato-ferredoxin;mitochondrial;Adrenodoxin, mitochondrial
Protein Construction:	59-186 aa
Species:	Bovine
Expression Host:	E. coli
Accession:	P00257
Molecular Weight:	19.5 kDa (predicted)
AA Sequence:	SSSEDKITVHFINRDGETLTTKGKIGDSSLDDVVVQNNLDIDGFGACEGTLACSTCHLIFEQHIFEKLEAITDEEND MLDLAYGLTDRSRLGCQICLTKAMDNMTVRVDPDAVSDARESIDMGMNSSKIE

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Essential for the synthesis of various steroid hormones. Participates in the reduction of mitochondrial cytochrome P450 for steroidogenesis. Transfers electrons from adrenodoxin reductase to CYP11A1, a cytochrome P450 that catalyzes cholesterol side-chain cleavage to produce pregnenolone, the precursor of most steroid hormones. Does not form a ternary complex with adrenodoxin reductase and CYP11A1 but shuttles between the two enzymes to transfer electrons.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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