

## Recombinant Bovine NADPH:Adrenodoxin Oxidoreductase, Mitochondrial (FDXR), N-His

Cat. No.: AP9C295

Product Type: Animal Proteins

Size: 20 µg; 100 µg; 1 mg

### Product Overview

BioVenic's Recombinant Bovine NADPH:Adrenodoxin Oxidoreductase, Mitochondrial (FDXR), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 55.8 kDa. The purity is >85% (SDS-PAGE).

### Specifications

Type	Recombinant Protein
Species	Bovine
Expression System	<i>E.coli</i>
Purity	>85% (SDS-PAGE)
Predicted Molecular Weight	55.8 kDa
Physical State	Lyophilized
Formulation	The buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.

### Target Information

Bovine NADPH:adrenodoxin reductase (ANXA4) is an essential protein in the electron transport chain of the mitochondrial steroidogenic system. It facilitates the transfer of electrons from NADPH to cytochrome P450 enzymes, which are vital for steroid hormone synthesis. In cattle, this protein plays a critical role in adrenal cortex function, enabling the production of hormones such as cortisol. The efficient electron transfer provided by adrenodoxin reductase supports various physiological processes, including the stress response and reproductive functions.

Protein	Bovine NADPH:Adrenodoxin Oxidoreductase, Mitochondrial (FDXR)
Protein Synonym	FDXR; ADXRNADPH:adrenodoxin oxidoreductase; mitochondrial; AR; Adrenodoxin reductase; EC 1.18.1.6; Ferredoxin--NADP(+) reductase; Ferredoxin reductase
UniProt ID	<a href="https://www.uniprot.org/uniprot/P08165">P08165</a>

### Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquot as needed and store at -80°C upon receipt. Reconstituted protein solution can be stored at 4°C for 1 week, at < -80°C for 12 months. Avoid repeated freezing and thawing.

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## **User Note**

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimise freeze-thaw cycles.

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The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.