

FDXR Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	ADXR;NADPH:adrenodoxin oxidoreductase, mitochondrial;Adrenodoxin reductase; mitochondrial;AR;Ferredoxin--NADP(+) reductase (Ferredoxin reductase);FDXR
Protein Construction:	33-451 aa
Species:	Human
Expression Host:	E. coli
Accession:	P22570
Molecular Weight:	61.6 kDa (predicted)
AA Sequence:	STQEKTPQICVVGSGPAGFYTAQHLLKQHPQAHVDIYEKQPVVFGVLRFGVAPDHPEVKSYGAEDHRALEIP GEELPGVCSARAFVGVWYNGLPENQELEPDLSCDTAVILGQGNVALDVARILLTPPEHLERTDITKAALGVLQRS RVKTVWLVGRRGPLQVAFTIKELREMIQLPGARPILDVDFLGLQDKIKEVPRPRKRLTELLRTATEKPGPAEA ARQASASRAWGLRFFRSPQQVLPSPDGRRAAGVRLAVTRLEGVDEATRAVPTGDMEDLPCGLVLSSIGYKSR PVDPSVPFDSKLGVIPNVEGRVMDVPGLYCSGWVVKRGPTGVIATTMTDSFLTGMQLLQDLKAGLLPSGPRPG YAAIQALLSSRGVRPVFSFDWEKLDAAEEVARGQGTGKPREKLVDPQEMLRLLGH

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:	> 90% 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

Serves as the first electron transfer protein in all the mitochondrial P450 systems including cholesterol side chain

A DRUG SCREENING EXPERT

cleavage in all steroidogenic tissues, steroid 11-beta hydroxylation in the adrenal cortex, 25-OH-vitamin D3-24 hydroxylation in the kidney, and sterol C-27 hydroxylation in the liver.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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