

Recombinant Human NADPH:adrenodoxin oxidoreductase, mitochondrial(FDXR)

Catalog No: #AP70300

Package Size: #AP70300-1 20ug #AP70300-2 100ug #AP70300-3 1mg

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Recombinant Human NADPH:adrenodoxin oxidoreductase, mitochondrial(FDXR)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:33-451aaSequence Info:Full Length of Isoform 6
Other Names	Ferredoxin--NADP(+) reductase ;Ferredoxin reductase
Accession No.	P22570
Calculated MW	61.6 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	STQEKTPQICVVGSGPAGFYTAQHLLKQHPQAHVDIYEKQPVFGLVRFVGVAPDHPEVKSYGAEDHRALEIPG EELPGVCSARAFVWYNGLPENQELEPDLSCDTAVILGQGNVALDVARILLTPPEHLERTDITKAALGVLRQSR VKTVWLVGRRGPLQVAFTIKELREMIQLPGARPILDVPDFLGLQDKIKEVPRPRKRLTELLRTATEKPGPAEAA RQASASRAWGLRFFRSPQQVLPSPDGRRAAGVRLAVTRLEGVDEATRAVPTGDMEDLPCGLVLSSIGYKSR PVDPSVPFDSKLGVIPNVEGRVMDVPGLYCSGWVKRGPTGVIATTMTDSFLTGMQLLQDLKAGLLPSGPRPG YAAIQALLSSRGVRPVVSFSDWEKLDAAEEVARGQGTGKPREKLVDPEMLRLLGH
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Serves as the first electron transfer protein in all the mitochondrial P450 systs. Including cholesterol side chain 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.

References

An enzyme assisted RP-RPLC approach for in-depth analysis of human liver phosphoproteome.Bian Y., Song C., Cheng K., Dong M., Wang F., Huang J., Sun D., Wang L., Ye M., Zou H.J. Proteomics 96:253-262(2014)Research Topic:Cell Biology

Note: This product is for in vitro research use only and is not intended for use in humans or animals.