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# **Recombinant human DHODH protein**

Catalog Number: ATGP1615

### PRODUCT INFORMATION

# **Expression system**

E.coli

#### **Domain**

31-395aa

#### UniProt No.

002127

### **NCBI Accession No.**

NP 001352

### **Alternative Names**

Dihydroorotate dehydrogenase (quinone) mitochondrial, Dihydroorotate dehydrogenase (quinone), mitochondrial, DHOdehase, POADS, uRA1

# **PRODUCT SPECIFICATION**

# **Molecular Weight**

42.3 kDa (390aa) confirmed by MALDI-TOF

# Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

#### **Purity**

> 90% by SDS-PAGE

### Tag

His-Tag

# **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**

# **Description**

DHODH, also known as dihydroorotate dehydrogenase (quinone), mitochondrial, belongs to the dihydroorotate dehydrogenase family. DHODH catalyzes the fourth enzymatic step, the ubiquinone-mediated oxidation of dihydroorotate to orotate, in de novo pyrimidine biosynthesis. This protein is a mitochondrial protein located on the outer surface of the inner mitochondrial membrane. Recombinant human DHODH protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.



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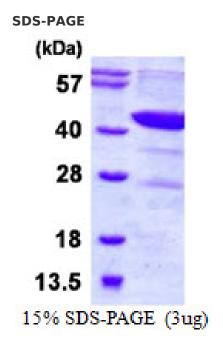
# **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MGSHMTGDER FYAEHLMPTL QGLLDPESAH RLAVRFTSLG LLPRARFQDS DMLEVRVLGH KFRNPVGIAA GFDKHGEAVD GLYKMGFGFV EIGSVTPKPQ EGNPRPRVFR LPEDQAVINR YGFNSHGLSV VEHRLRARQQ KQAKLTEDGL PLGVNLGKNK TSVDAAEDYA EGVRVLGPLA DYLVVNVSSP NTAGLRSLQG KAELRRLLTK VLQERDGLRR VHRPAVLVKI APDLTSQDKE DIASVVKELG IDGLIVTNTT VSRPAGLQGA LRSETGGLSG KPLRDLSTQT IREMYALTQG RVPIIGVGGV SSGQDALEKI RAGASLVQLY TALTFWGPPV VGKVKRELEA LLKEQGFGGV TDAIGADHRR

#### **General References**

Rawls J., et al. (2000) Eur. J. Biochem. 267:2079-2087 Liu S., et al. (2000) Structure. 8:25-33

## **DATA**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

