

# Recombinant human DHODH protein

Catalog Number: ATGP1615

## PRODUCT INFORMATION

---

### Expression system

E.coli

### Domain

31-395aa

### UniProt No.

Q02127

### 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.

## Recombinant human DHODH protein

Catalog Number: ATGP1615

### Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSHTMGDER FYAEHLMPTL QGLLDPEAH RLAVRFTSLG LLPRARFQDS DMLEVRVLGH  
KFRNPVGIAA GFDKHGEAVD GLYKMGFGFV EIGSVTPKPKQ EGNPRPRVFR LPEDQAVINR YGFNSHGLSV VEHLRARQQ  
KQAKLTEDGL PLGVNLGKNK TSVDAEAEDYA EGVRVLGPLA DYLVVNVSSP NTAGLRSLQG KAELRLLTK VLQERDGLRR  
VHRPAVLVKI APDLTSQDKE DIASVVKELG IDGLIVTNTT VSRPAGLQGA LRSETGGLSG KPLRDLSTQT IREMYALTQG  
RVPIIGVGGV SSGQDALEKI RAGASLVQLY TALTFWGPV VGKVKRELEA LLKEQGGGV TDAIGADHRR

### General References

Rawls J., et al. (2000) Eur. J. Biochem. 267:2079-2087

Liu S., et al. (2000) Structure. 8:25-33

## DATA

### SDS-PAGE

(kDa)

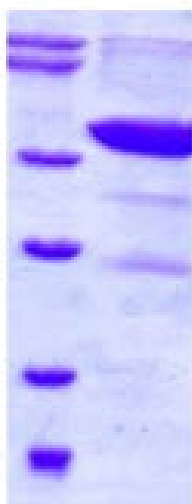
57

40

28

18

13.5



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

15% SDS-PAGE (3ug)