

Recombinant Human Dihydroorotate Dehydrogenase (quinone), His-tagged

Cat. No. DHODH-2486H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DHODH protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
ProteinLength	31-395aa
Description	DHODH 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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT.
Molecular Mass	42.3 kDa (390aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSMTGDER FYAEHLMPTL QGLLDPEAH RLAVRFTSLG LLPRARFQDS DMLEVRVLGH KFRNPVGIAA GFDKHGEAVD GLYKMGFGFV EIGSVTPKPQ EGNPRPRVFR LPEDQAVINR YGFNSHGLSV VEHRLRARQQ KQAKLTEDGL PLGVNLGKNK TSVDAAEYA EGVRVLGPLA DYLVVNVSSP NTAGLRSLQG KAELRRLTK VLQERDGLRR VHRPAVLVKI APDLTSQDKE DIASVVKELG IDGLIVTNTT VSRPAGLQGA LRSETGGLSG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KPLRDLSTQT IREMYALTQG RVPIIGVGGV SSGQDALEKI RAGASLVQLY
TALTFWGPPV VGKVKRELEA LLKEQGFGGV TDAIGADHRR

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -77°C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name DHODH dihydroorotate dehydrogenase (quinone) [Homo sapiens]

Official Symbol DHODH

Synonyms DHODH; dihydroorotate dehydrogenase (quinone); dihydroorotate dehydrogenase; dihydroorotate dehydrogenase (quinone), mitochondrial; dihydroorotate oxidase; human complement of yeast URA1; URA1; POADS; DHOdehase;

Gene ID 1723

mRNA Refseq NM_001361

Protein Refseq NP_001352

MIM 126064

UniProt ID Q02127

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Chromosome Location	16q22
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Pyrimidine biosynthesis, organism-specific biosystem; Pyrimidine metabolism, organism-specific biosystem; Pyrimidine metabolism, organism-specific biosystem; Pyrimidine metabolism, conserved biosystem;
Function	dihydroorotate dehydrogenase activity; dihydroorotate dehydrogenase activity; dihydroorotate oxidase activity; oxidoreductase activity;

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