

Dihydroorotate dehydrogenase Recombinant Protein | DHODH recombinant protein

Recombinant Human Dihydroorotate dehydrogenase (quinone), mitochondrial

CATALOG # AAA18438	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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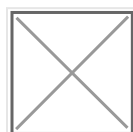
PRODUCT SYNONYMS

Dihydroorotate dehydrogenase; Recombinant Human Dihydroorotate dehydrogenase (quinone); mitochondrial; Dihydroorotate oxidase; DHODH recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	31-395. Partial
Sequence	TGDERFYAEH LMPTLQGLLD PESAHRLAVR FTSLGLLPRA RFQDSDMLEV RVLGHKFRNP VGIAAGFDKH GEAVDGLYKM GFGFVEIGSV TPKPQEGNPR PRVFRLPEDQ AVINRYGFNS HGLSVVEHRL RARQQQAKL TEDGLPLGVN LGKNKTSVDA AEDYAEGVRV LGPLADYLVV NVSSPNTAGL RSLQGKAELR RLLTKVLQER DGLRRVHRPA VLVKIAPDLT SQDKEDIASV VKELGIDGLI VTNTTVSRPA GLQGALRSET GGLSGKPLRD LSTQTIREMY ALTQGRVPII GVGGVSSGQD ALEKIRAGAS LVQLYTALTF WGPPVVGKVK RELEALLKEQ GFGGVTD AIG ADHRR
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for DHODH recombinant protein	Catalyzes the conversion of dihydroorotate to orotate with quinone as electron acceptor.
Product Categories/Family for DHODH recombinant protein	Metabolism

References	Cloning and sequencing of a human cDNA coding for dihydroorotate dehydrogenase by complementation of the corresponding yeast mutant.Minet M., Dufour M.E., Lacroute F.Gene 121:393-396(1992) Recombinant human dihydroorotate dehydrogenase expression, purification, and characterization of a catalytically functional truncated enzyme.Copeland R.A., Davis J.P., Dowling R.L., Lombardo D., Murphy K.B., Patterson T.A.Arch. Biochem. Biophys. 323:79-86(1995) Complete sequencing and characterization of 21,243 full-length human cDNAs.Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S., Yamamoto J., Saito K., Kawai Y., Isono Y., Nakamura Y., Nagahari K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M., Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E., Omura Y., Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M., Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y., Ishida S., Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T., Kusano J., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O., Nomura Y., Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S., Yoshikawa Y., Matsunawa H., Ichihara T., Shiohata N., Sano S., Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O., Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H., Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B., Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y., Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T., Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y., Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S., Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T., Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M., Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T., Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K., Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R., Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.Nat. Genet. 36:40-45(2004) Functional expression of a fragment of human dihydroorotate dehydrogenase by means of the baculovirus expression vector system, and kinetic investigation of the purified recombinant enzyme.Knecht W., Bergjohann U., Gonski S., Kirschbaum B., Loeffler M.Eur. J. Biochem. 240:292-301(1996) Requirements for the mitochondrial import and localization of dihydroorotate dehydrogenase.Rawls J., Knecht W., Diekert K., Lill R., Loeffler M.Eur. J. Biochem. 267:2079-2087(2000) Initial characterization of the human central proteome.Burkard T.R., Planyavsky M., Kaupe I., Breitwieser F.P., Buerckstuemmer T., Bennett K.L., Superti-Furga G., Colinge J.BMC Syst. Biol. 5:17-17(2011) 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) Structures of human dihydroorotate dehydrogenase in complex with antiproliferative agents.Liu S., Neidhardt E.A., Grossman T.H., Ocain T., Clardy J.Structure 8:25-33(2000) Dual binding mode of a novel series of DHODH inhibitors.Baumgartner R., Walloschek M., Kralik M., Gotschlich A., Tasler S., Mies J., Leban J.J. Med. Chem. 49:1239-1247(2006) Exome sequencing identifies the cause of a Mendelian disorder.Ng S.B., Buckingham K.J., Lee C., Bigham A.W., Tabor H.K., Dent K.M., Huff C.D., Shannon P.T., Jabs E.W., Nickerson D.A., Shendure J., Bamshad M.J.Nat. Genet. 42:30-35(2010)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	45006951
NCBI GeneID	1723
NCBI Accession #	NP_001352.2
NCBI GenBank Nucleotide #	NM_001361.4
UniProt Accession #	Q02127; Q6P176; A8K8C8
Molecular Weight	43.6 kDa
NCBI Official Full Name	dihydroorotate dehydrogenase (quinone), mitochondrial
NCBI Official Synonym Full Names	dihydroorotate dehydrogenase (quinone)
NCBI Official Symbol	DHODH
NCBI Official Synonym Symbols	URA1; POADS; DHodehase
NCBI Protein Information	dihydroorotate dehydrogenase (quinone), mitochondrial
UniProt Protein Name	Dihydroorotate dehydrogenase (quinone), mitochondrial
UniProt Gene Name	DHODH
UniProt Synonym Gene Names	DHodehase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/dhodh-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/18438>