

Recombinant Human DHODH protein, GST-tagged

Cat. No. DHODH-11970H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DHODH (1-395aa) protein was fused to GST-tag and expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	395aa
Description	The protein encoded by this gene 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	The purified protein was Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.). 5% trehalose and 5% mannitol are added as protectants before lyophilization.
Molecular Mass	66 kDa
AA Sequence	MAWRHLKKRAQDAVILGGGGLLFASYLMATGDERFYAEHLMPTLQGLLDPESAHR LAVRFTSLGLLPRARFQSDMLEVRVLGCHKFRNPVGIAAGFDKHXGEAVDGLYKMGF GFVEIGSVTPKPKQEGNPRPRVFRPLPEDQAVINRYGFNSHGLSVVEHRLRARQQKQA KLTEDGLPLGVNLGKNKTSVDAAEDYAEGVRVLGPLADYLVNVSSPNTAGLRSLQ GKAELRRLTKVLQERDGLRRVHRPAVLVKIAPDLTSQDKEDIASVVKELGIDGLIVTN

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TTVSRPAGLQGALRSETGGLSGKPLRDLSTQTIREMYALTQGRVPIIGVGGVSSGQD
ALEKIRAGASLVQLYTALTFWGPPVVGKVKRELEALLKEQGGVTDAGADHRR

Purity

85%, by SDS-PAGE with Coomassie Brilliant Blue staining.

Storage

Short-term storage: Store at 2-8 centigrade for (1-2 weeks).
Long-term storage: Aliquot and store at -20 to -80 centigrade for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.

Reconstitution

Reconstitute at 0.25 $\mu\text{g}/\mu\text{l}$ in 200 μl sterile water for short-term storage.
Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage.
If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used).
Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

GENE INFORMATION

Gene Name

DHODH

Official Symbol

DHODH

Synonyms

URA1; POADS; DHODEHase

Gene ID

1723

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mRNA Refseq [NM_001361.5](#)

Protein Refseq [NP_001352.2](#)

MIM [126064](#)

UniProt ID [Q02127](#)

**SDS-PAGE of
DHODH-11970H**



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