
Product Data Sheet

Product Name: DHODH Human
 Cat. No.: GP21557
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Dihydroorotate dehydrogenase (quinone); Dihydroorotate oxidase; human complement of yeast URA1; DHodehase; POADS; EC 1.3.5.2; EC 1.3.3.1.		
Amino Acid Sequence	GSSHHHHHH SGLVPRGSH MGSMTGDER FYAEHLMPTL QGLLDPEAH RLAVRFTSLG LLPRARFQDS DMLEVRVLGH KFRNPVGIAA GFDKHGEAVD GLYKMGFGFV EIGSVTPKPQ EGNPRPRVFR LPEDQAVINR YGFNSHGLSV VEHLRRLRQQ KQAKLTEDGL PLGVNLGKNK TSVDAEDYA EGVRVLGPLA DYLVNVSSP NTAGLRSLQG KAELRLLTK VLQERDGLRR VHRPAVLVKI APDLTSQDKE DIASVVKELG IDGLIVTNTT VSRPAGLQGA LRSETGGLSG KPLRDLSTQT IREMYALTQG RVPIIGVGGV SSGQDALEKI RAGASLVQLY TALTFWGPPV VGKVKRELEA LLKEQGFGGV TDAIGADHRR.		
Formulation	The DHODH solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 20% glycerol.		

Introduction

Dihydroorotate dehydrogenase quinone (DHODH) is a member of the dihydroorotate dehydrogenase family. DHODH is a mitochondrial protein found on the outer surface of the inner mitochondrial membrane. DHODH catalyzes the 4th enzymatic step, the ubiquinone-mediated oxidation of dihydroorotate to orotate (with quinone as electron acceptor), in de novo pyrimidine biosynthesis. DHODH gene defects cause the postaxial acrofacial dysostosis (POADS), also known as Miller syndrome.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

DHODH Human Recombinant produced in E. coli is a single polypeptide chain containing 390 amino acids (31-395) and having a molecular mass of 42.3 kDa. DHODH is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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