



Recombinant Rat DHODH Protein Product Manual

1. Product Basic Information

Product No.: REP06669

Protein Name: Dihydroorotate Oxidase (DHODH)

Aliases: URA1; POADS; DHodehase; dihydroorotate oxidase; human complement of yeast URA1; dihydroorotate dehydrogenase (quinone)

UniProt ID: Q02127

UniProt Link: <https://www.uniprot.org/uniprotkb/Q02127/entry>

Species Source: Rattus norvegicus (Rat)

Expression System: E.coli

Protein Length: Partial (31-395aa)

Molecular Weight: 57.6 kDa

Protein Tag: N-terminal 6xHis-Trx-tagged

2. Amino Acid Sequence (31-395aa)

TGDDHFYAEYLMPLQLRLLDPESAHLRAVRVTSLGLLPRATFQDSDMLEVKVLGHK
FRNPVGIAAGFDKNGEAVDGLYKLGFGFVEVGSVTPQPQEGNPRPRVFRLPEDQA
VINRYGFNSHGLSVVEHRLRARQQKQAQLTADGLPLGINLGKNKTSEDAAADYAEG
VRTLGPLADYLVVNVSSPNTAGLRSLQGKTELRLHLLSKVLQERDALKGTRKPAVLV
KIAPDLTAQDKEDIASVARELGIDGLIVTNTTVSRPVGLQGALRSETGGLSGKPLRDL
STQTIREMYALTQGRIPIIGVGGVSSGQDALEKIQAGASLVQLYTALIFLGPPVVVRV
KRELEALLKERGFTTVTDAIGADHRR

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.



4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Rat DHODH partial protein (31-395aa) expressed in E.coli. The protein is with 6xHis-Trx tag at the N-terminus, which facilitates protein purification, detection and identification. DHODH, also known as URA1 or POADS or DHodehase, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.