



Recombinant Human HGD Protein Product Manual

1. Product Basic Information

Product No.: REP07108

Protein Name: Homogentisate Oxidase (HGD)

Aliases: AKU; HGO; homogentisicase; homogentisate oxidase; homogentisate oxygenase; homogentisic acid oxidase; homogentisate 1,2-dioxygenase

UniProt ID: Q93099

UniProt Link: <https://www.uniprot.org/uniprotkb/Q93099/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length (1-445aa)

Molecular Weight: 54.0 kDa

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (1-445aa)

MAELKYISGFGNECSEDPRCPGSLPEGQNNPQVCPYNLYAEQLSGSAFTCPRST
NKRSWLYRILPSVSHKPFESIDEGQVTHNWDEVDPDPNQLRWKPFEPKASQKKVD
FVSGLHTLCGAGDIKSNNGLAIHIFLCNTSMENRCFYNSDGDFLIVPQKGNLLIYTEF
GKMLVQPNEICVIQRGMRFSIDVFEETRGIYILEVYGVHFEPLDGLPIGANGLANPRD
FLIPIAWYEDRQVPGGYTVINKYQGKLF AAKQDVSPFNVVAWHGNYTPYKYNLKNF
MVINSVAFDHADPSIFTVLTAKSVRPGVAIADFVIFPPRWGVADKTFRPPYYHRNCM
SEFMGLIRGHYEAKQGGFLPGGSLHSTMTPHGPDADCFEKASKVKLAPERIADGT
MAFMFESSLSLAVTKWGLKASRCLDENYHKCWEPLKSHFTPNSRNP AEPN

3. Storage Buffer

Liquid Delivery Form: Tris-based buffer with 50% glycerol.

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

4. Storage Conditions



Enlibio Wuhan Enlibio Biotech Co.,Ltd Manuals version5.9

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 Human HGD full length protein (1-445aa) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. HGD, also known as AKU or HGO or homogentisicase, 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.