



Recombinant Human OGDH Protein Product Manual

1. Product Basic Information

Product No.: REP07679

Protein Name: Oxoglutarate Decarboxylase (OGDH)

Aliases: E1k; E1o; KGD1; OGDC; AKGDH; OGDH2; OGDHD; HsOGDH; OGDC-E1; OGDH-E1; alpha-KGDH-E1; oxoglutarate decarboxylase; oxoglutarate dehydrogenase; testicular tissue protein Li 131; 2-oxoglutarate dehydrogena...

UniProt ID: Q02218

UniProt Link: <https://www.uniprot.org/uniprotkb/Q02218/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length of Mature Protein of Isoform 3 (41-427aa)

Molecular Weight: 59.1kDa

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

2. Amino Acid Sequence (41-427aa)

SAPVAAEPFLSGTSSNYVEEMYCAWLENPKSVHKSWDIFFRNTNAGAPPGTAYQS
PLPLSRGSLAAVAHAQSLVEAQPNVDKLVEDHLAVQSLIRAYQIRGHHVAQLDPLGI
LDADLDSSVPADIISSTDKLGFYGLDESDLDKVFHLPPTTTFIGGQESALPLREIIRLE
MAYCQHIGVEFMFINDLEQCQWIRQKFETPGIMQFTNEEKRTLRLVRSTRFEEFL
QRKWSSEKRFGLEGCEVLIPALKTIIDKSSSENGVDYVIMGMPHRGRLNVLANVIRKE
LEQIFCQFDSKLEAADEGSGDVKYHLGMYHRRINRVTDRNITLSLVANPSHLEAADP
VVMGKTKAEQFYCGDTEGKKVRPRERRARQIVKAPCSSMEFRSPT

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 Human OGDH full length of mature protein of isoform 3 protein (41-427aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. OGDH, also known as E1k or E1o or KGD1, 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.