



Recombinant Human IVD Protein Product Manual

1. Product Basic Information

Product No.: REP07263

Protein Name: Butyryl-CoA Dehydrogenase (IVD)

Aliases: IVDH; ACAD2; butyryl-CoA dehydrogenase; isovaleryl-CoA dehydrogenase; isovaleryl Coenzyme A dehydrogenase; epididymis secretory sperm binding protein; isovaleryl-CoA dehydrogenase, mitochondrial

UniProt ID: P26440

UniProt Link: <https://www.uniprot.org/uniprotkb/P26440/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (33-426aa)

Molecular Weight: 50.0 kDa

Protein Tag: C-terminal 6xHis-tagged

2. Amino Acid Sequence (33-426aa)

HSLLPVDDAINGLSEEQRQLRQTMAKFLQEHLAPKAQEIDRSNEFKNLREFWKQLG
NLGVLGITAPVQYGGSGLGYLEHVLVMEEISRASGAVGLSYGAHSNLCINQLVRNG
NEAQKEKYLPLKISGEYIGALAMSEPNAGSDVVSMLKAEKKGNHYILNGNKFITN
GPDADVLIVYAKTDLAAPASRGITAFIVEKGMPGFSTSKLCLKLGMGRSNTCELIFE
DCKIPAANILGHENKGVYVLMSSGLDLRLVLAGGPLGLMQAVLDHTIPYLHVREAFG
QKIGHFQLMQGKMADMYTRLMACRQYVYNVAKACDEGHCTAKDCAGVILYSAECA
TQVALDGIQCFGGNGYINDFPMGRFLRDAKLYEIGAGTSEVRRLVIGRAFNADFH

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 IVD full length of mature protein protein (33-426aa) expressed in E.coli. The protein is with 6xHis tag at the C-terminus, which facilitates protein purification, detection and identification. IVD, also known as IVDH or ACAD2 or butyryl-CoA dehydrogenase, 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.