



Recombinant Human ACOD1 Protein Product Manual

1. Product Basic Information

Product No.: REP06022

Protein Name: Cis-Aconitate Decarboxylase (ACOD1)

Aliases: CAD; IRG1; cis-aconitate decarboxylase; cis-aconitic acid decarboxylase; immune-responsive gene 1 protein homolog

UniProt ID: A6NK06

UniProt Link: <https://www.uniprot.org/uniprotkb/A6NK06/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length (1-481aa)

Molecular Weight: 59.5 kDa

Protein Tag: C-terminal 6xHis-tagged

2. Amino Acid Sequence (1-481aa)

MMLKSITESFATAIHGLKVGHLTDRVIQRSKRMILDTLGAGFLGTTTEVFHIASQYSKI
YSSNISSTVWGQPDIRLPPTYAAFVNGVAIHSMDFDDTWHPATHPSGAVLPVLTALA
EALPRSPKFSGLDLLAFNVGIEVQGRLLHFAKEANDMPKRFHPPSVVGTLSAAA
ASKFLGLSSTKCREALIAVSHAGAPMANAATQTKPLHIGNAAKHGIEAAFLAMLGL
QGNKQVLDLEAGFGAFYANYSPKVLPSIASYSWLLDQQDVAFKRFPAPHLSTHWVA
DAAASVRKHLVAERALLPTDYIKRIVLRIPNVQYVNRPFVSEHEARHSFQYVACAM
LLDGGITVPSFHECQINRPQVRELLSKVELEYPPDNLPSEFNILYCEISVTLKDGATFTD
RSDTFYGHWRKPLSQEDLEEKFRANASKMLSWDTVESLIKIVKNLEDLEDCSVLTTL
LKGPSPEVASNSPACNNSITNLS

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 ACOD1 full length protein (1-481aa) expressed in E.coli. The protein is with 6xHis tag at the C-terminus, which facilitates protein purification, detection and identification. ACOD1, also known as CAD or IRG1 or cis-aconitate decarboxylase, 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.