



Recombinant Human ACO2 Protein Product Manual

1. Product Basic Information

Product No.: REP06021

Protein Name: Aconitase Citrate Hydro-Lyase (ACO2)

Aliases: ICRD; OCA8; OPA9; ACONM; HEL-S-284; aconitase citrate hydro-lyase; mitochondrial aconitase; aconitase 2, mitochondrial; aconitate hydratase, mitochondrial; epididymis secretory sperm binding protein L...

UniProt ID: Q99798

UniProt Link: <https://www.uniprot.org/uniprotkb/Q99798/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length (1-780aa(K68R))

Molecular Weight: 92.4 kDa

Protein Tag: C-terminal 6xHis-tagged

2. Amino Acid Sequence (1-780aa(K68R))

MAPYSLLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPNEYIHYDLLEKNINIVRK
RLNRPLTLSEIVYGHLDLDPASQEIERGKSYLRPDRVAMQDATAQMAMLQFISS
GLSKVAVPSTIHCDHLIEAQVGGEKDLRRAKDINQEVYNFLATAGAKYGVGFWKPG
SGIIHQIILENYAYPGVLLIGTDSHTPNGGGLGGICIGVGGADAVDVMAGIPWELKCP
KVIGVKLTGSLSGWSSPKDVILKVAGILTVKGGTGAIVEYHGPGVDSISCTGMATICN
MGAEIGATTSVFPYNHRMKKYLSKTGREDIANLADEFKDHLVPDPGCHYDQLIEINL
SELKPHINGPFTPDLAHPVAEVGKVAEKEGWPLDIRVGLIGSCTNSSYEDMGRSAA
VAKQALAHGLKCKSQFTITPGSEQIRATIERDGYAQILRDLGGIVLANACGPCIGQW
DRKDIKKGEKNTIVTSYNRNFTGRNDANPETHAFVTSPEIVTALAIAAGTLKFNPETDY
LTGTDGKKFRLEAPDADELPKGEFDPGQDQTYQHPPKDSSGQHVDVVSPTSQRLQLL
EPFDKWDGKDLEDLQILIKVKGKCTTDHISAAGPWLFKRGHLDNISNNLLIGAINIEN
GKANSVRNAVVTQEFGPVPDTARYYKKHGIRWVIGDENYGEKSSREHAALEPRHL
GGRAITKSFARIHETNLKKQGLLPLTFADPADYNKIHPVDKLTIQGLKDFTPGKPLKC
IIKHPNGTQETILLNHTFNETQIEWFRAGSALNRMKELQQ



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 ACO2 full length protein (1-780aa(K68R)) expressed in E.coli. The protein is with 6xHis tag at the C-terminus, which facilitates protein purification, detection and identification. ACO2, also known as ICRD or OCA8 or OPA9, 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.