

Recombinant Human ACO2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ACO2-2771H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ACO2 MS Standard C13 and N15-labeled recombinant protein (NP_001089) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene belongs to the aconitase/IPM isomerase family. It is an enzyme that catalyzes the interconversion of citrate to isocitrate via cis-aconitate in the second step of the TCA cycle. This protein is encoded in the nucleus and functions in the mitochondrion. It was found to be one of the mitochondrial matrix proteins that are preferentially degraded by the serine protease 15(PRSS15), also known as Lon protease, after oxidative modification.
Molecular Mass	85.43 kDa
AA Sequence	MAPYSLLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPNEYIHYDLLEKNINIVRK RLNRPLTLSEKIVYGHLLDDPASQEIERGKSYLRLRPDRVAMQDATAQMAMLQFISSG LSKVAVPSTIHCDHLIEAQVGGKDLRRAKDINQEVYNFLATAGAKYGVGFWKPGSG IIHQIILENYAYPGVLLIGTDSHTPNGGGLGGICIGVGGADAVDVMAGIPWELKCPKVI GVKLTGSLSGWSSPKDVILKVAGILTVKGGTGAIVEYHGPGVDSISCTGMATICNMG AEIGATTSVFPYNHRMKKYLSKTGREDIANLADEFKDHLVPDPGCHYDQLIEINLSEL KPHINGPFTPDLAHPVAEVGKVAEKEGWPLDIRVGLIGSCTNSSYEDMGRSAAVAK

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QALAHGLKCKSQFTITPGSEQIRATIERDGYAQILRDLGGIVLANACGPCIGQWDRKD
 IKKGEKNTIVTSYNRNFTGRNDANPETHAFVTSPEIVTALAIAGTLKFNPETDYLTGTD
 GKKFRLEAPDADELPGKGEFDPGQDTYQHPPKDSSGQHVDVSPTSQRLQLLEPFDK
 WDGKDLEDLQILIKVKGKCTTDHISAAGPWLKFRGHLDNISNNLLIGAINIENGKANSV
 RNAVTQEFGPVPDTARYYKKGIRWVIGDENYGEGSSREHAALPRHLGGRAITK
 SFARIHETNLKKQGLLPLTFADPADYINKIHPVDKLTIQGLKDFTPGKPLKCIKHPNGT
 QETILLNHTFNETQIEWFRAGSALNRMKELQQTRTRPLEQKLISEEDLAANDILDYKD
 DDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ACO2 aconitase 2 [Homo sapiens (human)]

Official Symbol ACO2

Synonyms ACO2; aconitase 2, mitochondrial; aconitate hydratase, mitochondrial; ACONM; citrate hydro-lyase; ICRD; MGC20605; MGC33908;

Gene ID 50

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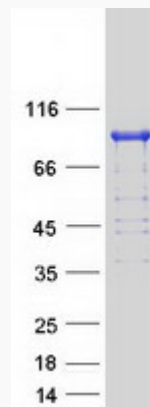
mRNA Refseq [NM_001098](#)

Protein Refseq [NP_001089](#)

MIM [100850](#)

UniProt ID [Q99798](#)

SDS-PAGE



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