

Recombinant Human ACO2 Protein, GST-Tagged

Cat. No. ACO2-165H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ACO2 full-length ORF (NP_001089.1, 1 a.a. - 780 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. [provided by RefSeq, Jul 2008]
Molecular Mass	111.8 kDa
AA Sequence	MAPYSLLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPNEYIHYDLLEKNINIVRK RLNRPLTLSEKIVYGHLDLDDPASQEIERGKSYLRLRPDRVAMQDATAQMAMLQFISSG LSKVAVPSTIHCDHLIEAQVGGKDLRRAKDINQEVYNFLATAGAKYGVGFWKPGSG IIHQIILENYAYPGVLLIGTDSHTPNGGGLGGICIGVGGADAVDVMAGIPWELKCPKVI GVKLTGSLSGWSSPKDVILKVAGILTVKGGTGAIVEYHGPGVDSISCTGMATICNMG AEIGATTSVFPYNHRMKKYLSKTGREDIANLADEFKDHLVPDPGCHYDQLIEINLSEL KPHINGPFTPDLAHPVAEVGKVAEKEGWPLDIRVGLIGSCTNSSYEDMGRSAAVAK QALAHGLKCKSQFTITPGSEQIRATIERDGYAQILRDLGGIVLANACGPCIGQWDRKD

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IKKGEKNTIVTSYNRNFTGRNDANPETHAFVTSPEIVTALAIAGTLKFNPETDYLTGTD
 GKKFRLEAPDADELPGKGEFDPGQDTYQHPPKDSSGQHVDVSPQSRLQLLEPFDK
 WDGKDLEDLQILIKVKGKCTTDHISAAGPWLKFRGHLDNISNLLIGAINIENGKANSV
 RNAVTQEFGPVPDTARYYKKGIRWVIGDENYGEGSSREHAALPRHLGGRAITK
 SFARIHETNLKKQGLLPLTFADPADYNKIHPVDKLTIQGLKDFTPGKPLKCIKHPNGT
 QETILLNHTFNETQIEWFRAGSALNRMKELQQ

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	ACO2 aconitase 2, mitochondrial [Homo sapiens]
Official Symbol	ACO2
Synonyms	ACO2; aconitase 2, mitochondrial; aconitate hydratase, mitochondrial; ACONM; citrate hydro-lyase; ICRD; MGC20605; MGC33908;
Gene ID	50
mRNA Refseq	NM_001098

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Protein Refseq [NP_001089](#)

MIM [100850](#)

UniProt ID [Q99798](#)

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