

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	MAPYSLLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPNEYIHVDLLEKNINIVRK RLNRPLTLSEKIVYGHLDLPASQEIERGKSYLRRLRPDRVAMQDATAQMAMLQFISSG LSKVAVPSTIHCDHLIEAQVGGEKDLRRAKDINQEVYNFLATAGAKYGVGFWKPGSG IIHQIILENYAYPGVLLIGTDSHTPNGGGLGGICIGVGGADAVDVMAGIPWELKCPKVI GVKLTGSLSGWSSPKDVILKVAGILTVKGGTGAIVEYHGPGVDSISCTGMATICNMG AEIGATTSVFPYNHRMCKYLSKTGREIDIANLADEFKDHLVPDPGCHYDQLIEINLSEL KPHINGPFTPDLAHPVAEVGKVAEKEGWPLDIRVGLIGSCTNSSYEDMGRSAAVAK QALAHGLKCKSQFTITPGSEQIRATIERDGYAQILRDLGGIVLANACGPCIGQWDRKD

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

IKKGEKNTIVTSYNRNFTGRNDANPETHAFVTSPEIVTALAIAAGTLKFNPETDYLTGTD
GKKFRLEAPDADELPKGEFDPGQDTYQHPPKDSSGQHVDVSPTSQRLQLLEPFDK
WDGKDLEDLQILIKVKGKCTTDHISAAGPWLKFRGHLDNISNNLLIGAINIENGKANSV
RNAVTQEFGPVPDTARYYKKHGIRWVIGDENYGEGSSREHAALPRHLGGRAITK
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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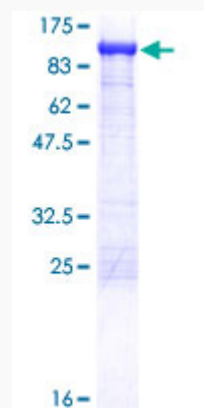
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Protein Refseq NP_001089

MIM 100850

UniProt ID Q99798



12.5% SDS-PAGE Stained with Coomassie Blue.

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