

Recombinant Full Length Human ACO2 Protein, GST-tagged

Cat. No. ACO2-783HF 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	In Vitro Cell Free System
ProteinLength	780 amino acids
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	MAPYLLVTR LQKALGVRQY HVASVLCQRA KVAMSHFEPN EYIHYDLLEK NINIVRKRLN RPLTLSEKIV YGHLDDPASQ EIERGKSYLR LRPDRVAMQD ATAQMAMLQF ISSGLSKVAV PSTIHC DHLI EAQVGGEKDL RRAK DINQEV YNFLATAGAK YGVGFWKPGS GIIHQIILEN YAYPGVLLIG TDSHTPNGGG LGGICIGVGG ADAVDVMAGI PWELKCPKVI GVKLTGSLSG WSSPKDVILK VAGILTVKGG TGAIVEYHGP GVDSISCTGM ATICNMGAEI GATTSVFPYN HRMKKYLSTK GREDIANLAD EFKDHLVPDP GCHYDQLIEI NLSELKPHIN

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GPFTPDLAHP VAEVGKVAEK EGWPLDIRVG LIGSCTNSSY EDMGRSAAVA
 KQALAHGLKC KSQFTITPGS EQIRATIERD GYAQILRDLG GIVLANACGP
 CIGQWDRKDI KKGEKNTIVT SYNRFNFTGRN DANPETHAFV TSPEIVTALA
 IAGTLKFNPE TDYLTGTDGK KFRLEAPDAD ELPKGEFDPG QDTYQHPPKD
 SSGQHVDVSP TSQRLQLLEP FDKWDGKDLE DLQILIKVKG KCTTDHISAA
 GPWLKFRGHL DNISNNLLIG AINIENKAN SVRNAVTQEF GPVPDTARYY
 KKHGIRWVVI GDENYGEGSS REHAALPRH LGGRAITKS FARIHETNLK
 KQGLLPLTFA DPADYNKIHP VDKLTIQGLK DFTPGKPLKC IIKHPNGTQE
 TILLNHTFNE TQIEWFRAGS ALNRMKELQQ

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

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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