

Recombinant Full Length Human ACO2 Protein, C-Flag-tagged

Cat. No. ACO2-1215HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ACO2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	82.4 kDa
AA Sequence	MAPYSLLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPNEYIHVDLLEKNINIVRK RLNRPLTLSEKIV YGHLDDPASQEIERGKSYLRLRPDRVAMQDATAQMAMLQFISS GLSKVAVPSTIHCDHLIEAQVGGEKDL RRAKDINQEVYNFLATAGAKYGVGFWKPG SGIIHQIILENYAYPGVLLIGTDSHTPNGGGLGGICIGVGG ADAVDVMAGIPWELKCP KVIGVKLTGSLSGWSSPKDVILKVAGILTVKGGTGAIVEYHGPVGVDNISCTGM ATICN MGAEIGATTSVFPYNHRMKKYLSKTGREDIANLADEFKDHLVPDPGCHYDQLIEINLS ELKPHIN GPFTPDLAHPVAEVGKVAEKEGWPLDIRVGLIGSCTNSSYEDMGRSAAV

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AKQALAHGLKCKSQFTITPGS EQIRATIERDGYAQILRDLGGIVLANACGPCIGQWD
 RKDIKKGEKNTIVTSYNRNFTGRNDANPETHAFV TSPEIVTALAIAAGTLKFNPETDYL
 TGTGKKFRLEAPDADELPKGEFDPGQDTYQHPPKDSSGQHVDVSP TSQRLQLE
 PFDKWDGKDLEDLQILIKVKGKCTTDHISAAGPWLKFRGHLDNISNLLIGAINIENGK
 AN SVRNAVTQEFGPVPDTARYYKKHGIRWVVIGDENYEGGSSREHAALPRHLGG
 RAIITKSFARIHETNLK KQGLLPLTFADPADYNKIHPVDKLTIQGLKDFTPGKPLKCIK
 HPNGTQETILLNHTFNETQIEWFRAGS
 ALNRMKELQQTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

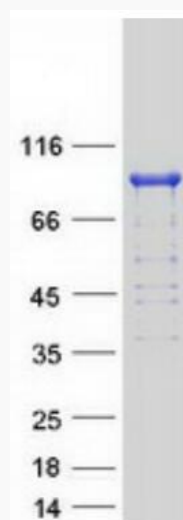
Gene Name	ACO2 aconitase 2 [Homo sapiens (human)]
Official Symbol	ACO2

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Synonyms	ICRD; OCA8; OPA9; ACONM; HEL-S-284
Gene ID	50
mRNA Refseq	NM_001098.3
Protein Refseq	NP_001089.1
MIM	100850
UniProt ID	Q99798



Coomassie blue staining of purified ACO2 protein.