

## Product datasheet for TP304307

### Aconitase 2 (ACO2) (NM\_001098) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204307 representing NM_001098 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MAPYSLLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPNEYIHYDLLEKNINIVRKRLNRPLTLSEKIV  
YGHLD DPASQEIERGKSYLRLRPDRVAMQDATAQMAMLQFISSGLSKVAVPSTIHCDHLIEAQVGGKDL  
RRAKDINQEVYNFLATAGAKYGVGFWKPGSGIIHQIILENYAYPGVLLIGTDSHTPNGGGLGGICIGVGG  
ADAVDVMAGIPWELKCPKVIGVKTGSLSGWSSPKDVILKVAGILTVKGGTGAIVEYHGPVDSISCTGM  
ATICNMGAEIGATTSVFPYNHRMKKYLSKTGREDIANLADEFKDLVDPGCHYDQLIEINLSELKPHIN  
GPFTPDLAHPVAEVGKVAEKEGWPLDIRVGLIGSCTNSSYEDMGRSAAVAKQALAHGLKCKSQFTITPGS  
EQIRATI ERDGYAQILRDLGGIVLANACGPCIGQWDRKDIIKGEKNTIVTSYNNRFTGRNDANPETHAFV  
TSPEIVTALAIAGTLKFNPETDYLTGTDGKKFRLEAPDADEL PKGEFDPGQDTYQHPPKDSSGQHVDVSP  
TSQRLQLLEPFDKWDGKDLEDLQILIKVKGKCTTDHISAAGPWLKFRGHLDNISNLLIGAINIENKAN  
SVRNAVTQEFGPVPTARYYKKGIRWVIGDENYEGEGSSREHAALPRHLGGRAITKSFARIHETNLK  
KQGLLPLTFADPADYNKIHPVDKLTIQGLKDFTPGKPLKCIKHPNGTQETILLNHTFNETQIEWFRAGS  
ALNRMKELQQ

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	82.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_001089](#)

**Locus ID:** 50

**UniProt ID:** [Q99798](#)

**RefSeq Size:** 2744

**Cytogenetics:** 22q13.2

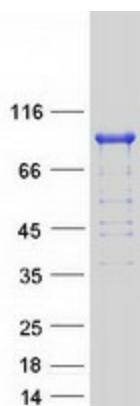
**RefSeq ORF:** 2340

**Synonyms:** ACONM; HEL-S-284; ICRD; OCA8; OPA9

**Summary:** 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]

**Protein Pathways:** Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Metabolic pathways

### Product images:



Coomassie blue staining of purified ACO2 protein (Cat# TP304307). The protein was produced from HEK293T cells transfected with ACO2 cDNA clone (Cat# [RC204307]) using MegaTran 2.0 (Cat# [TT210002]).