

Product datasheet for **TP300508M**

ATP citrate lyase (ACLY) (NM_001096) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ATP citrate lyase (ACLY), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200508 protein sequence Red =Cloning site Green =Tags(s)

MSAKAISEQTKELLYKFICTTSAIQNRFKYARVTPDTPDWARLLQDHPWLLSQNLVVKPDQLIKRRGKLG
LVGVNLTLDGVKSWLKPRLGQEATVGKATGFLKNFLIEPFVPHSQAEFYVCIYATREGDYVLFHHEGGV
DVGDVDAKAQKLLVGVDEKLNPEDIKKHLLVHAPEDKKEILASFISGLFNFYEDLYFTYLEINPLVTKD
GVYVLDLAAKVDATADYICKVKWGDIEFPPPGREAYPEEAYIADLDAKSGASLKLTLNPKGRIWTMVA
GGGASVWYSDTICDLGGVNELANYGEYSGAPSEQQTYDYAKTILSLMTREKHPDGKILIGGSIANFTNV
AATFKGIVRAIRDYQGPLKEHEVTIFVRRGGPNYQEGLRVMGEVGKTTGIPIHVFGTETHMTAIVGMALG
HRPIPNQPPTAAHTANFLLNASGSTSTPAPSRTASFSESRADEVAPAKKAKPAMPQDSVSPRSLQGKST
TLFSRHTKAIWGMQTRAVQGMDFDYVCSRDEPSVAAMVYPFTGDHKQKFYWGHEKILIPVFKNMADAM
RKHPEVDVLINFASLRSAYDSTMETMNYAQIRTIAIIAEGIPEALTRKLIKADQKGVTIIGPATVGGIK
PGCFKIGNTGGMLDNILASKLYRPGSVAYVSRSGGMSNELNIIISRTTDGVYEGVAIGGDRYPGSTFMDH
VLRDQDTPGVKMIWVLGEIGGTEEYKICRGIKEGRLTKPIVCWCIGTCATMFSEVQFGHAGACANQASE
TAVAKNQALKEAGVFVPRSFDELGEIISQVYEDLVANGVIVPAQEVPPPTVPMDSWARELGLIRKPASF
MTSICDERGQELIYAGMPITEVFKEEMGIGGVLGLLWFQKRLPKYSCQFIEMCLMVTADHGPVSGAHNT
IICARAGKDLVSSLTSGLLTIGDRFGGALDAAAKMFSKAFDSGIIPMEFVNKMKKEGKLMIGIGHRVKSI
NNPDMRVQILKDYVRQHFPATPLLDYALEVEKITTSSKPNLILNVDGLIGVAFVDMRLNCGSFTREEADE
YIDIGALNGIFVLGRSMGFIGHYLDQKRLKQGLYRHPWDDISYVLPEHMMSM

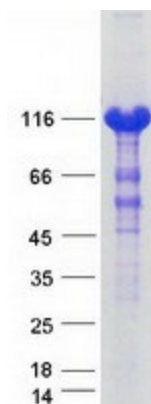
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	120.7 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



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Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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_001087
Locus ID:	47
UniProt ID:	P53396 , A0A024R1T9
RefSeq Size:	4450
Cytogenetics:	17q21.2
RefSeq ORF:	3303
Synonyms:	ACL; ATPCL; CLATP
Summary:	ATP citrate lyase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. The enzyme is a tetramer (relative molecular weight approximately 440,000) of apparently identical subunits. It catalyzes the formation of acetyl-CoA and oxaloacetate from citrate and CoA with a concomitant hydrolysis of ATP to ADP and phosphate. The product, acetyl-CoA, serves several important biosynthetic pathways, including lipogenesis and cholesterologenesis. In nervous tissue, ATP citrate-lyase may be involved in the biosynthesis of acetylcholine. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Dec 2014]
Protein Families:	Druggable Genome
Protein Pathways:	Citrate cycle (TCA cycle), Metabolic pathways

Product images:

Coomassie blue staining of purified ACLY protein (Cat# [TP300508]). The protein was produced from HEK293T cells transfected with ACLY cDNA clone (Cat# [RC200508]) using MegaTran 2.0 (Cat# [TT210002]).