

Recombinant Human ACLY Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ACLY-1295H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ACLY MS Standard C13 and N15-labeled recombinant protein (NP_001087) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	120.8 kDa
AA Sequence	MSAKAISEQTGKELLYKFICTTSAIQNRFKYARVTPD TDWARLLQDHPWLLSQNLVV KPDQLIKRRGKLGVLGVNLTLDGVKSWLKPRLGQEATVGKATGFLKNFLIEPFVPHS QAEEFYVCIYATREGDYVLFHHEGGVDVGDVDAKAQKLLVGVDEKLN PEDIKKHLLV HAPEDKKEILASFISGLFNFYEDLYFTYLEINPLVVT KDGVVYVLDLAAKVDATADYICK VKWGDIEFPPPPFGREAYPEEAYIADLDAKSGASLKL TLLNPKGRIWTMVAGGGASVV

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YSDTICDLGGVNELANYGEYSGAPSEQQTYDYAKTILSLMTREKHPDGKILIIGGSIAN
FTNVAATFKGIVRAIRDYQGPLKEHEVTIFVRRGGPNYQEGLRVMGEVGKTTGIPIHV
FGTETHMTAIVGMALGHRPIPNQPPTAAHTANFLLNASGSTSTPAPSRTASFSESRA
DEVAPAKKAKPAMPQDSVSPRSLQGKSTTLFSRHTKAIVWGMQTRAVQGMDFD
YVCSRDEPSVAAMVYPFTGDHKQKFYWGHKEILIPVFKNMADAMRKHPEVDVLINF
ASLSAYDSTMETMNYAQIRTI AIAEGIPEALTRKLIKADQKGVTIIGPATVGGIKPG
CFKIGNTGGMLDNILASKLYRPGSVAYVSRSGGMSNELNNISRTTDGVYEGVAIGG
DRYPGSTFMDHVLRYQDTPGVKMIVVLGEIGGTEEYKICRGIKEGRLTKPIVCWCIGT
CATMFSSEVQFGHAGACANQASETAVAKNQALKEAGVFVPRSFDELGEIIQSVYED
LVANGVIVPAQEVPPPTVPM DY SWARELGLIRKPASFMTSICDERGQELIYAGMPITE
VFKEEMGIGGVLGLLWFQKRLPKYSCQFIEMCLMVTADHGPVSGAHNTIICARAGK
DLVSSLTSGLLTIGDRFGGALDAAAKMFSKAFDSGIIPMEFVNKMKKEGKLIMGIGHR
VKSINNPDMRVQILKD YVRQHFPATPLLDYALEVEKITTSKKPNLILNVDGLIGVAFVD
MLRNCGSFTREEADEYIDIGALNGIFVLGRSMGFIGHYLDQKRLKQGLYRHPWDDIS
YVLPEHMSMTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ACLY ATP citrate lyase [Homo sapiens (human)]

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Official Symbol	ACLY
Synonyms	ACLY; ATP citrate lyase; ATP-citrate synthase; ACL; ATP citrate synthase; ATPCL; CLATP; citrate cleavage enzyme; ATP-citrate (pro-S-)-lyase;
Gene ID	47
mRNA Refseq	NM_001096
Protein Refseq	NP_001087
MIM	108728
UniProt ID	P53396
SDS-PAGE	