

Active Recombinant Human ACLY Protein, GST-tagged

Cat. No. ACLY-420H **Lot. No.** (See product label)

SPECIFICATION

| | |
|-------------------------|--|
| Product Overview | Recombinant Human ACLY fused with GST tag at the N-terminus was produced in Insect cells. |
| Species | Human |
| Source | Insect cells |
| 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. |
| Form | 45 mM Tris-HCl, pH 8.0, 124 mM NaCl, 2.4 mM KCl, 10% glycerol, and 3 mM DTT. |
| Bio-activity | >300pmole/min/ug |
| Molecular Mass | 147 kDa |
| Purity | >86% |
| Applications | Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling. |

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Storage At least 6 months at -80 centigrade. Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein(BSA 0.1-0.5%).

GENE INFORMATION

Gene Name ACLY ATP citrate lyase [Homo sapiens]

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

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