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 cholesterogenesis. 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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