

## Recombinant Human ACLY Protein (4-265 aa), His-SUMO-tagged

**Cat. No.** ACLY-1907H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human ACLY Protein (4-265 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Metabolism. Protein Description: Partial.                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 4-265 aa                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | ATP citrate-lyase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. Has a central role in de novo lipid synthesis. In nervous tissue it may be involved in the biosynthesis of acetylcholine.                                                    |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 45.5 kDa                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | KAISEQTGKELLYKFICTTSAIQNRFKYARVTPD TDWARLLQDHPWLLSQNLVVKPD<br>QLIKRRGKLGVLGVNLTLDGVKSWLKPRLGQEATVGKATGFLKNFLIEPFVPHSQAE<br>EFYVCIYATREGDYVLFHHEGGVDVGDVDAKAQKLLVGVDEKLN PEDIKKHLLVHAP<br>EDKKEILASFISGLFNFYEDLYFTYLEINPLVVT KDGVYVLDLAAKV DATADYICKVKW<br>GDIEFPPPPFGREAYPEEAYIADLDAKSGASLK |

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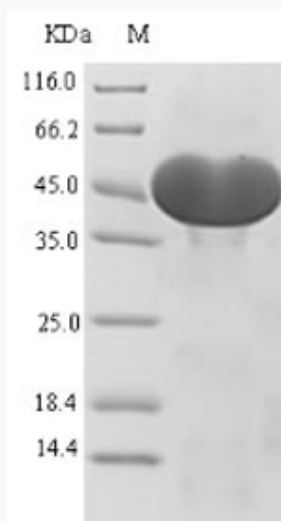
 45-1 Ramsey Road, Shirley, NY 11967, USA

|                         |                                                                                                                                                                                                                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                    |
| <b>Notes</b>            | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                        |
| <b>Storage</b>          | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| <b>Concentration</b>    | A hardcopy of COA with reconstitution instruction is sent along with the products.                                                                                                                                                                                                                                  |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Name</b>        | ACLY ATP citrate lyase [ Homo sapiens ]                                                                                                                                                                                                                                                                             |
| <b>Official Symbol</b>  | ACLY                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>         | ACLY; ATP citrate lyase; ATP-citrate synthase; ACL; ATPCL; CLATP;                                                                                                                                                                                                                                                   |
| <b>Gene ID</b>          | 47                                                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>      | NM_001096                                                                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>   | NP_001087                                                                                                                                                                                                                                                                                                           |
| <b>MIM</b>              | 108728                                                                                                                                                                                                                                                                                                              |
| <b>UniProt ID</b>       | P53396                                                                                                                                                                                                                                                                                                              |

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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