

# Recombinant Human PPARG coactivator 1 alpha Protein, His tagged

Cat. No. PPARGC1A-32H    Lot. No. (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of Human peroxisome proliferator-activated receptor gamma, coactivator 1 alpha (PPARGC1A), Phe511-End, with N-terminal His tag, expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 511-End                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | The protein encoded by this gene is a transcriptional coactivator that regulates the genes involved in energy metabolism. This protein interacts with PPARGgamma, which permits the interaction of this protein with multiple transcription factors. This protein can interact with, and regulate the activities of, cAMP response element binding protein (CREB) and nuclear respiratory factors (NRFs). It provides a direct link between external physiological stimuli and the regulation of mitochondrial biogenesis, and is a major factor that regulates muscle fiber type determination. This protein may be also involved in controlling blood pressure, regulating cellular cholesterol homoeostasis, and the development of obesity. |
| <b>Tag</b>              | N-His                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 34.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

|                       |                                                                                                                                                      |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                          |
| <b>Stability</b>      | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.        |
| <b>Storage</b>        | Store at -80 centigrade.                                                                                                                             |
| <b>Concentration</b>  | > 0.05 µg/µL as determined by microplate BCA method                                                                                                  |
| <b>Storage Buffer</b> | 50 mM Tris-HCl, pH 8.0, 8 M urea                                                                                                                     |
| <b>Notes</b>          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PPARGC1A PPARG coactivator 1 alpha [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                     |
| <b>Official Symbol</b> | PPARGC1A                                                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>        | PPARGC1A; PPARG coactivator 1 alpha; LEM6; PGC1; PGC1A; PGC-1v; PPARGC1; PGC-1alpha; PGC-1(alpha); peroxisome proliferator-activated receptor gamma coactivator 1-alpha; L-PGC-1alpha; PGC-1-alpha; PPAR gamma coactivator variant form; PPARGC1alpha; PPARGC-1-alpha; PPARGgamma coactivator 1alpha; ligand effect modulator-6 |
| <b>Gene ID</b>         | 10891                                                                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | NM_013261                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>  | NP_037393                                                                                                                                                                                                                                                                                                                       |

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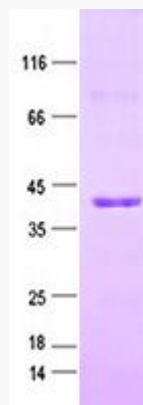
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 45-1 Ramsey Road, Shirley, NY 11967, USA

MIM 604517

UniProt ID Q9UBK2

SDS-PAGE



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