

Recombinant Human PPARGC1A Protein, His-tagged

PPARGC1A-729H Human

Lot. No. (See product label)

Specification

Product Overview Recombinant Human PPARGC1A(Ser573~Asn767) fused with His tag at N-terminal was expressed in E. coli.

Description The protein encoded by this gene is a transcriptional coactivator that regulates the genes involved in energy metabolism. This protein interacts with PPARgamma, 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 homeostasis, and the development of obesity.

Source E. coli

Species Human

Tag His

Form PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

Molecular Mass 25.4kDa

Protein length Ser573~Asn767

Endotoxin <1.0EU per 1µg (determined by the LAL method)

Purity >98%

Applications Positive Control; Immunogen; SDS-PAGE; WB.
If bio-activity of the protein is needed, please check active protein.

Stability The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

Storage Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

Reconstitution Reconstitute in PBS or others.

Gene Information

Gene Name [PPARGC1A peroxisome proliferator-activated receptor gamma, coactivator 1 alpha \[Homo](#)

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sapiens]

Official Symbol [PPARGC1A](#)

Synonyms

PPARGC1A; peroxisome proliferator-activated receptor gamma, coactivator 1 alpha; peroxisome proliferative activated receptor, gamma, coactivator 1 , peroxisome proliferative activated receptor, gamma, coactivator 1, alpha , PPARGC1; peroxisome proliferator-activated receptor gamma coactivator 1-alpha; PGC1; PGC1A; PGC-1-alpha; L-PGC-1alpha; PPARGC-1-alpha; ligand effect modulator-6; PPAR gamma coactivator variant form; LEM6; PGC-1v; PPARGC1; PGC-1(alpha);

Gene ID [10891](#)

mRNA Refseq [NM_013261](#)

Protein Refseq [NP_037393](#)

MIM [604517](#)

UniProt ID [Q9UBK2](#)

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