

Recombinant Human PPARGC1A protein, GST-tagged

Cat. No. PPARGC1A-8291H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PPARGC1A(689 a.a. - 798 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	689-798 a.a.
Description	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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	37.84 kDa
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array

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Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name PPARGC1A peroxisome proliferator-activated receptor gamma, coactivator 1 alpha [Homo 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

Chromosome Location 4p15.1

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Pathway

ATF-2 transcription factor network, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Adipogenesis, organism-specific biosystem; BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Circadian Repression of Expression by REV-ERBA, organism-specific biosystem;

Function

DNA binding; RNA binding; RNA polymerase II transcription cofactor activity; androgen receptor binding; ligand-dependent nuclear receptor binding; ligand-dependent nuclear receptor transcription coactivator activity; nucleotide binding; protein binding; transcription coactivator activity; transcription factor binding;

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