

Recombinant Mouse Pparg protein, His-tagged

Cat. No. Pparg-39M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Pparg fused with His tag at N-terminal was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Phe149~Ser273
Description	This gene encodes a nuclear receptor protein belonging to the peroxisome proliferator-activated receptor (Ppar) family. The encoded protein is a ligand-activated transcription factor that is involved in the regulation of adipocyte differentiation and glucose homeostasis. The encoded protein forms a heterodimer with retinoid X receptors and binds to DNA motifs termed "peroxisome proliferator response elements" to either activate or inhibit gene expression. Mice lacking the encoded protein die at an embryonic stage due to severe defects in placental vascularization. When the embryos lacking this gene are supplemented with healthy placentas, the mutants survive to term, but succumb to lipodystrophy and multiple hemorrhages. Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300
Molecular Mass	15.6kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	> 90%
Applications	SDS-PAGE; WB; ELISA; IP
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	Pparg peroxisome proliferator activated receptor gamma [Mus musculus]
Official Symbol	Pparg
Synonyms	PPARG; peroxisome proliferator activated receptor gamma; peroxisome proliferator-activated receptor gamma; nuclear receptor subfamily 1 group C member 3; peroxisome proliferator activated receptor gamma 2; peroxisome proliferator activated receptor gamma 4; Nr1c3; PPARGgamma; PPAR-gamma; PPARGgamma2; PPAR-gamma2;
Gene ID	19016
mRNA Refseq	NM_001127330
Protein Refseq	NP_001120802

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MIM	
UniProt ID	P37238
Chromosome Location	6 53.41 cM; 6 E3-F1
Pathway	Adipogenesis, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Gene expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem; Nuclear Receptor transcription pathway, organism-specific biosystem;
Function	DNA binding; DNA binding; DNA binding; RNA polymerase II regulatory region DNA binding; activating transcription factor binding; arachidonic acid binding; chromatin binding; drug binding; enzyme binding; ligand-activated sequence-specific DNA binding RNA polymerase II transcription factor activity; ligand-activated sequence-specific DNA binding RNA polymerase II transcription factor activity; metal ion binding; protein binding; receptor activity; retinoid X receptor binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; steroid hormone receptor activity; transcription regulatory region DNA binding; transcription regulatory region DNA binding; zinc ion binding;