

Active Recombinant Full Length human PPARγ protein, His tagged

Cat. No. PPARG-33HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Full Length human peroxisome proliferator activated receptor gamma protein with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-477 aa
Description	This gene encodes a member of the peroxisome proliferator-activated receptor (PPAR) subfamily of nuclear receptors. PPARs form heterodimers with retinoid X receptors (RXRs) and these heterodimers regulate transcription of various genes. Three subtypes of PPARs are known: PPAR-alpha, PPAR-delta, and PPAR-gamma. The protein encoded by this gene is PPAR-gamma and is a regulator of adipocyte differentiation. Additionally, PPAR-gamma has been implicated in the pathology of numerous diseases including obesity, diabetes, atherosclerosis and cancer. Alternatively spliced transcript variants that encode different isoforms have been described.
Tag	His
Molecular Mass	59.7 kDa
AA Sequence	MTMVDTEMPFWPTNFGISSVDLSVMEDHSHSFDIKPFTTVDFSSISTPHYEDIPFTRT

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

DPVVADYKYDLKLQEYQSAIKVEPASPPYYSEKTQLYNKPHEEPSNSLMAIECRVCG
 DKASGFHYGVHACEGCKGFFRRTIRLKLIIYDRCDLNCRIHKKSRNKCQYCRFQKCLA
 VGMSHNAIRFGRMPQAEKEKLLAEISSDIDQLNPESADLRALAKHLYDSYIKSFPLTK
 AKARAILTGKTTDKSPFVIYDMNSLMMGEDKIKFKHITPLQEQSKEVAIRIFQGCQFRS
 VEAVQEITEYAKSIPGFVNLDLNDQVTLLKYGVHEIYTMLASLMNKDGVLISEGQGF
 MTREFLKSRLKPFPGDFMEPKFEFAVKFNALELDDSDLAIFIIVILSGDRPGLLNKPIE
 DIQDNLLQALELQLKLNHPESSQLFAKLLQKMTDLRQIVTEHVQLLQVIKKTETDMSL
 HPLLQEIYKDLY

Purity	0.9
Quality Control Testing	The His-tag recombinant protein is purified by affinity chromatography in combination with FPLC columns. The purified PPAR-gamma is greater than 95% homogeneous based on SDS-PAGE analysis.
Unit Definition	1 unit equals 1 nanogram of purified protein. 20 units are sufficient for a gel-mobility shift assay and 100 units are sufficient for a protein-protein interaction assay.
Applications	PPAR γ has been applied in DNA and protein-protein interaction assays.
Storage	Stored at -70 centigrade before use. Avoid repeated freeze thaw cycles.
Storage Buffer	20mM Tris-HCl pH7.9, 100mM NaCl, 0.2mM EDTA, 1mM DTT and 20% glycerol.
References	1. Desvergne et al., (1999) Endocr. Rev. 20, 649-688 2. Kersten (2000) Nature 405, 421-424 3. Rosen et al., (1999) Mol. Cell 4, 611-617

GENE INFORMATION

Gene Name **PPARG** peroxisome proliferator activated receptor gamma [Homo sapiens (human)]

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Official Symbol	PPARG
Synonyms	PPARG; peroxisome proliferator activated receptor gamma; GLM1; CIMT1; NR1C3; PPARG1; PPARG2; PPARG5; PPARGgamma; peroxisome proliferator-activated receptor gamma; PPAR-gamma; nuclear receptor subfamily 1 group C member 3; peroxisome proliferator-activated receptor-gamma 5; peroxisome proliferator-activated receptor-gamma splicing
Gene ID	5468
mRNA Refseq	NM_138712
Protein Refseq	NP_619726
MIM	601487
UniProt ID	D2KUA6

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