

Active Recombinant Full Length human PPARG protein, His tagged

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

SPECIFICATION

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| 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 | <p>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.</p> |
| Tag | His |
| Molecular Mass | 59.7 kDa |
| AA Sequence | MTMVDTEMPFWPTNFGISSVDLSVMEDHSHSFDIKPFTTVDFSSISTPHYEDIPFTRT |

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DPVVADYKYDLKLQEYQSAIKVEPASPPYYSEKTQLYNKPHEEPSNSLMAIECRVCG
 DKASGFHYGVHACEGCKGFFRRTIRLKLIIYDRCDLNCRIHKKSRNKQCQYCRFQKCLA
 VGMSHNAIRFGRMPQAEKEKLLAEISSDIDQLNPESADLRALAKHLYDSYIKSFPLTK
 AKARAILTGKTTDKSPFVIYDMNSLMMGEDKIKFKHITPLQEQSKEVAIRIFQGCQFRS
 VEAVQEITEYAKSIPGFVNLDLNDQVTLLKYGVHEIYTMLASLMNKDGVLISEGQGF
 MTREFLKSRLKPFMGDFMEPKFEFAVKFNALELDDSDLAIFIIVILSGDRPGLLNKPIE
 DIQDNLLQALELQLKLNHPESQLFAKLLQKMTDLRQIVTEHVQLLQVIKKTETDMSL
 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; PPARgamma; 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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