



Recombinant Human Peroxisome proliferator-activated receptor gamma (PPARG)

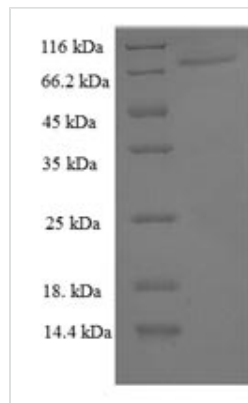
Product Code	CSB-EP018424HU
Relevance	Nuclear receptor that binds peroxisome proliferators such as hypolipidic drugs and fatty acids. Once activated by a ligand, the nuclear receptor binds to DNA specific PPAR response elements (PPRE) and modulates the transcription of its target genes, such as acyl-CoA oxidase. It therefore controls the peroxisomal beta-oxidation pathway of fatty acids. Key regulator of adipocyte differentiation and glucose homeostasis. ARF6 acts as a key regulator of the tissue-specific adipocyte P2 (aP2) enhancer. Acts as a critical regulator of gut homeostasis by suppressing NF-kappa-B-mediated proinflammatory responses. Plays a role in the regulation of cardiovascular circadian rhythms by regulating the transcription of ARNTL/BMAL1 in the blood vessels .
Abbreviation	Recombinant Human PPARG protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P37231
Alias	Nuclear receptor subfamily 1 group C member 3
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MTMVDTEMPFWPTNFGISSVDLSVMEDHSHSFDIKPFTTVDFSSISTPHYEDIP FTRTDPVVADYKYDLKLQEYQSAIKVEPASPPYYSEKTQLYNKPHEEPSNSLM AIECRVCGDKASGFHYGVHACEGCKGFFRRTIRLKLIDRCDLNCRIHKKSRN KCQYCRFQKCLAVGMSHNAIRFGRMPQAEKEKLLAEISSDIDQLNPESADLRA LAKHLYDSYIKSFPLTKAKARAILTGKTTDKSPFVIYDMNSLMMGEDKIKFKHITP LQEQSKEVAIRIFQGCQFRSVEAVQEITEYAKSIPGFVNLDLNDQVTLLKYGVH EIIYTMLASLMNKDGVLISEGQGFMTREFLKSRLKPFQDFMEPKFEFAVKFNAL ELDDSDLAIFIIVILSGDRPGLLNKPIEDIQDNLLQALELQLKLNHPRESSQLFAK LLQKMTDLRQIVTEHVQLLQVIKKTETDMSLHPLLQEIYKDLY
Research Area	Transcription
Source	E.coli
Target Names	PPARG
Expression Region	1-477aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged



Mol. Weight 70.3kDa

Protein Length Full Length of Isoform 1

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The formation of the recombinant plasmid by incorporating the gene encoding the Human PPARG protein (1-477aa) into a plasmid vector initiates the generation of the recombinant Human PPARG protein. Transforming the recombinant plasmid into e.coli cells and then selecting the positive e.coli cells based on their ability to survive in the presence of a specific antibiotic. The positive e.coli cells are cultured under conditions that stimulate the expression of the gene of interest. The protein is equipped with a N-terminal 6xHis-SUMO tag. After expression, affinity purification is employed to isolate and purify the recombinant Human PPARG protein from the cell lysate. Denaturing SDS-PAGE is utilized to resolve the resulting recombinant Human PPARG protein, revealing a purity level exceeding 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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