Recombinant Human PPARD protein, His-tagged

Cat. No. PPARD-15H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PPARD(Leu260~Glu426) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Leu260~Glu426
Description	This gene encodes a member of the peroxisome proliferator-activated receptor (PPAR) family. PPARs are nuclear hormone receptors that bind peroxisome proliferators and control the size and number of peroxisomes produced by cells. PPARs mediate a variety of biological processes, and may be involved in the development of several chronic diseases, including diabetes, obesity, atherosclerosis, and cancer. This protein is a potent inhibitor of ligand-induced transcription activity of PPAR alpha and PPAR gamma. It may function as an integrator of transcription repression and nuclear receptor signaling. The expression of this gene is found to be elevated in colorectal cancer cells. The elevated expression can be repressed by adenomatosis polyposis coli (APC), a tumor suppressor protein related to APC/beta-catenin signaling pathway. Knockout studies in mice suggested the role of this protein in myelination of the corpus callosum, lipid metabolism, and epidermal cell proliferation. Alternate splicing results in multiple transcript variants.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300

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Molecular Mass	20.1kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	> 95%
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	PPARD peroxisome proliferator-activated receptor delta [Homo sapiens]
Official Symbol	PPARD
Synonyms	PPARD; peroxisome proliferator-activated receptor delta; peroxisome proliferative activated receptor, delta; FAAR; NR1C2; NUC1; NUCII; PPAR-beta; PPAR-delta; nuclear hormone receptor 1; nuclear receptor subfamily 1 group C member 2; peroxisome proliferator-activated receptor beta; peroxisome proliferator-activated nuclear receptor beta/delta variant 2; NUCI; PPARB; MGC3931;
Gene ID	5467

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mRNA Refseq	NM_001171818
Protein Refseq	NP_001165289
MIM	600409
UniProt ID	Q03181
Chromosome Location	6p21.2
Pathway	Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adipogenesis, organism-specific biosystem; Energy Metabolism, organism-specific biosystem; Gene expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; Nuclear Receptor transcription pathway, organism-specific biosystem;
Function	DNA binding; drug binding; fatty acid binding; ligand-activated sequence-specific DNA binding RNA polymerase II transcription factor activity; linoleic acid binding; lipid binding; metal ion binding; receptor activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; steroid hormone receptor activity; zinc ion binding;

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