

Recombinant human PPAR gamma/NR1C3 protein

Catalog Number: ATGP0637

PRODUCT INFORMATION

Expression system

E.coli

Domain

209-477aa

UniProt No.

P37231

NCBI Accession No.

NP_619725.2

Alternative Names

Peroxisome proliferator-activated receptor gamma, NR1C3, CIMT1, GLM1, NR1C3, PPARG1, PPARG2, PPARGgamma, Peroxisome proliferator-activated receptor gamma

PRODUCT SPECIFICATION

Molecular Weight

33 kDa (290aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.1M NaCl

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PPARG, also known as Peroxisome proliferator-activated receptor gamma, is member of the nuclear hormone receptor subfamily of transcription factors. This protein regulates transcription of genes involved in Insulin action, adipocyte differentiation, lipid metabolism and inflammation. It is implicated in numerous diseases including obesity, diabetes, atherosclerosis and cancer. It also activators include prostanoids, fatty acids, thiazolidinediones and N- (2-benzoylphenyl) tyrosine analogues. PPARG may modulate macrophage functions

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such as proinflammatory activities, and stimulate oxidized low-density lipoprotein (x-LDL) uptake. Recombinant human PPARγ protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH M>ADLRALAKH LYDSYIKSFP LTKAKARAIL TGKTTDKSPF VIYDMNSLMM GEDKIKFKHI
TPLQEQSKEV AIRIFQGCQF RSVEAVQEIT EYAKSIPGFV NLDLNDQVTL LKYGVHEIY TMLASLMNKD GVLISEGQGF
MTREFLKSLR KPFGDFMEPK FEFAVKFNAL ELDDSDLAIF IAVIILSGDR PGLLNKPIE DIQDNLLQAL ELQLKLNHPE
SSQLFAKLLQ KMTDLRQIVT EHVQLLQVIK KTETDMSLHP LLQEIYKDLY

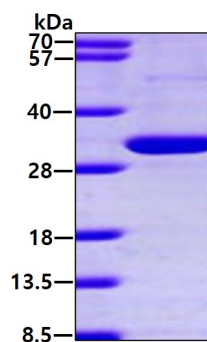
General References

Berger J., et al. (2002) *Annu Rev Med* . 53:409-35.

Michalik L., et al. (2006) *Pharmacol Rev*. 58(4):726-41.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.