

Peroxisome Proliferator-activated Receptor Gamma

Human, PPARG

Expressed in *E.Coli*

Cat. No. CBCRY34

Lot. No. (See product label)

BACKGROUND

PPARG regulates fatty acid storage and glucose metabolism. Many insulin sensitizing drugs used in the treatment of diabetes target PPARG as a means to lower serum glucose without increasing pancreatic insulin secretion. The genes activated by PPARG stimulate lipid uptake and adipogenesis by fat cells. PPARG knockout mice fail to generate adipose tissue when fed a high fat diet.

MOLECULAR DESCRIPTION

Protein classification: transcription

Structure Weight: 34246.95 Da

Polymer: 1

Molecule: Peroxisome proliferator-activated receptor gamma

Chains: A

Type: polypeptide (L)

Chain Length: 296 amino acids

CRYSTAL INFORMATION

PDB ID: [3BC5](#)

MMDB ID: [67970](#)

Source: E.Coli

Method: X-Ray Diffraction

Resolution: 2.27 Å

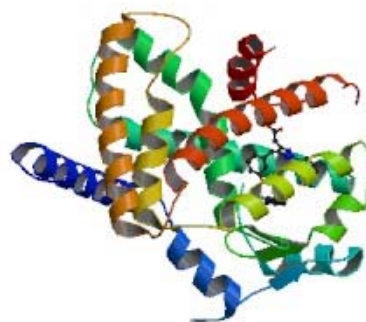
Ligand Chemical Component: ZAA

PRIMARY CITATION

Zhang, H., Ryono, D.E., Devasthale, P., Wang, W., O'Malley, K., Farrelly, D., Gu, L., Harrity, T., Cap, M., Chu, C., Locke, K., Zhang, L., Lippy, J., Kunselman, L., Morgan, N., Flynn, N., Moore, L., Hosagrahara, V., Zhang, L., Kadiyala, P., Xu, C., Doweiko, A.M., Bell, A., Chang, C., Muckelbauer, J., Zahler, R., Hariharan, N., Cheng, P.T. (2009) Design, synthesis and structure-activity relationships of azole acids as novel, potent dual PPAR alpha/gamma agonists. *Bioorg.Med.Chem.Lett.* 19: 1451-1456

FOR RESEARCH USE ONLY

CRYSTAL STRUCTURE



GENE INFORMATION

Gene Name: [PPARG](#)

Synonyms: CIMT1; NR1C3; PPARG1; PPARG2; PPAR-gamma; HUMPPARG; OTTHUMP00000185030; OTTHUMP00000185033; OTTHUMP00000185037; PPAR gamma; nuclear receptor subfamily 1 group C member 3; peroxisome proliferative activated receptor gamma; peroxisome proliferator-activated receptor gamma 1; nuclear receptor subfamily 1 group C member 3

UniProt ID: [P37231](#)

GeneID: [5468](#)

Chromosome Location: 3p25

Function: arachidonic acid binding; drug binding; metal ion binding; prostaglandin receptor activity; protein heterodimerization activity; retinoid X receptor binding; steroid hormone receptor activity; zinc ion binding

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