

Peroxisome Proliferator-activated Receptor Gamma

Cat. No. CBCRY34 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Source	E.coli
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.
Protein Classification	transcription
Structure Weight	34246.95 Da
Polymer	1
Molecule	Peroxisome proliferator-activated receptor gamma
Chain Length	296 amino acids
PDB ID	3BC5
MMDB ID	67970
Method	X-Ray Diffraction

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Resolution	2.27Å
Ligand Chemical Component	ZAA
Reference	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
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
Gene ID	5468
Chromosome Location	3p25
Function	arachidonic acid binding; drug binding; metal ion binding; prostaglandin receptor activity; protein heterodimerization activity; retinoid X receptor binding; steroid

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hormone receptor activity; zinc ion binding

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