

## Peroxisome Proliferator-activated Receptor Gamma

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

### SPECIFICATION

<b>Source</b>	E.coli
<b>Background</b>	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.
<b>Protein Classification</b>	transcription
<b>Structure Weight</b>	34246.95 Da
<b>Polymer</b>	1
<b>Molecule</b>	Peroxisome proliferator-activated receptor gamma
<b>Chain Length</b>	296 amino acids
<b>PDB ID</b>	<a href="#">3BC5</a>
<b>MMDB ID</b>	<a href="#">67970</a>
<b>Method</b>	X-Ray Diffraction

 Tel: 1-631-559-9269 1-516-512-3133


 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Resolution</b>	2.27Å
<b>Ligand Chemical Component</b>	ZAA
<b>Reference</b>	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. <i>Bioorg.Med.Chem.Lett.</i> 19: 1451-1456
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	PPARG
<b>Synonyms</b>	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
<b>UniProt ID</b>	P37231
<b>Gene ID</b>	5468
<b>Chromosome Location</b>	3p25
<b>Function</b>	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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