



## Product Datasheet

<b>Product Name</b>	Peroxisome Proliferator Activated Receptor Gamma Human Recombinant
<b>Cata No</b>	CB500834
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	Peroxisome proliferator-activated receptor gamma, PPAR-gamma, PPARG, NR1C3, PPARG1, PPARG2.

### Description

The peroxisome proliferator activated receptors (PPARs) are ligandactivated transcription factors within the nuclear receptor superfamily, which play important roles in adipogenesis, glucose homeostasis and inflammation. Three different isotypes can be distinguished; alpha, beta and gamma. PPAR $\gamma$ , is mainly expressed in adipose tissue and to lesser extent in colon, the immune system and the retina. Whereas PPAR $\alpha$  operates in the catabolism of fatty acids in the liver, PPAR $\gamma$  influences the storage of fatty acids in the adipose tissue and plays a role in adipocyte differentiation. PPAR $\gamma$  binds to DNA as a heterodimer with retinoid X receptor (RXR), activating expression of target genes after binding ligand. Peroxisome Proliferator Activated Receptor Gamma Human Recombinant is expressed in E.coli having a molecular weight of 59.2 kDa and fused to an amino terminal hexahistidine tag.

### Physical Appearance

Sterile Filtered clear solution.

### Purity

Greater than 95% as determined by SDS-PAGE.

Mass spectrometry of tryptic digest products for identity determination.

### Formulation

PBS 50% glycerol, 0.01% azide.

### Sequence

MTMVDTEMPFWPTNFGISSVDLSVMEDHSHSFDI  
KPFTTVDFSSISTPHY  
EDIPFTRTDPVVADYKYDLKLQEYQSAIKVEPASP  
PYYSEKTQLYNKPHE  
EPSNSLMAIECRVCGDKASGFHYGVHACEGCKG  
FFRRTIRLKLIDRCD  
LNCRIHKKSRNKCCYCRFQKCLAVGMSHNAIRFG  
RMPQAEKEKLLAEIS  
SDIDQLNPESADLRALAKHLYDSYIKSFPLTKAKA  
RAILTGKTTDKSPFVIY  
DMNSLMMGEDKIKFKHITPLQEQSKEVAIRIFQGC  
QFRSVEAVQEITEYAK  
SIPGFVNLDLNDQVTLKYGVEHIIYTMLASLMNK  
DGVLISEGQGFMTREF  
LKSLRKPFDFMEPKFEFAVKFNALELDDSDLAIFI  
AVIILSGDRPGLLNVK  
PIEDIQDNLLQALELQLKLNHPESQLFAKLLQKM  
TDLRQIVTEHVQLLQV  
IKKTETDMSLHPLLQEIKDLYZ