

# PPAR $\gamma$ (LBD) Human Recombinant (His-tagged)

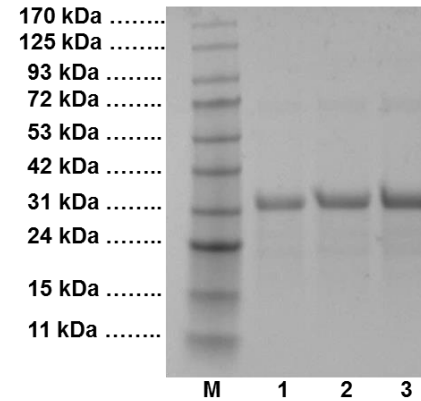
<b>CATALOG #:</b>	7878-20	20 $\mu$ g
	7878-100	100 $\mu$ g
	7878-500	500 $\mu$ g
<b>ALTERNATIVE NAMES:</b>	PPAR-gamma, NR1C3, PPARG	
<b>SOURCE:</b>	<i>E. coli</i>	
<b>FORM:</b>	Liquid	
<b>FORMULATION:</b>	2 mg/ml in 50 mM Tris, 100 mM NaCl, 1 mM TCEP, pH 8.0 containing 20% glycerol	
<b>PURITY:</b>	$\geq$ 90% by SEC analysis. In SDS-PAGE, the protein shows a minor band corresponding to its dimer (~70 kDa); while during SEC analysis, it migrates as a single monomeric protein (~34 kDa)	
<b>MOL. WT.:</b>	34.8 kDa (NP_619726.2, 193–477 aa + N-terminal His <sub>6</sub> -tag)	

**STORAGE CONDITIONS:** Store at -80°C. Stable for at least 6 months as supplied. It can be further diluted to 0.5 mg/ml with 50 mM Tris, 100 mM NaCl, 1 mM TCEP, pH 8.0 containing 20% glycerol and stored at -80°C in aliquots. Avoid repeated freezing and thawing cycles.

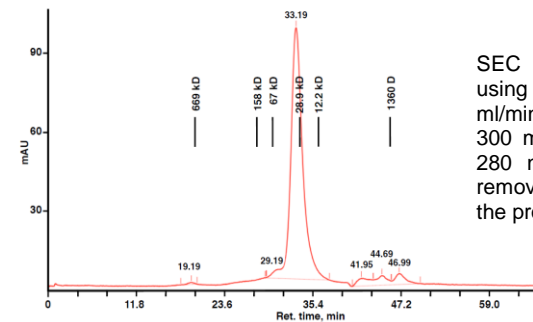
**BACKGROUND:** The peroxisome proliferator activated receptor (PPAR) family of ligand-activated transcription factors consists of three subtypes encoded by separate genes: PPAR $\alpha$ , PPAR $\delta$  and PPAR $\gamma$ . Of these, PPAR $\gamma$  plays an important role in the regulation of fatty acid storage and glucose metabolism. The genes activated by PPAR $\gamma$  stimulate lipid uptake and adipogenesis by fat cells. Many naturally occurring molecules such as, polyunsaturated fatty acids like arachidonic acid and arachidonic acid metabolites, are known to bind and activate PPAR $\gamma$ . The binding of activating ligands to the ligand binding domain (LBD) of PPAR $\gamma$  promotes its heterodimerization with retinoic acid-like receptor (RXR), which results in the regulated expression of target genes involved in lipid metabolism. BioVision's His-PPAR $\gamma$  (LBD) is a non-glycosylated protein expressed and purified from *E. coli*. It has been tested for functionality by its binding and subsequent displacement of 1,8-ANS assay.

**APPLICATIONS:** Recombinant Human PPAR $\gamma$  (LBD) can be used in the ligand screening assays, selectivity profiling, western blotting, ELISA, and numerous such applications.

**For Research Use Only! Not to be used in humans.**



SDS-PAGE (4-20%) of His-PPAR $\gamma$  (LBD):  
 1: Protein Marker  
 2: His-PPAR $\gamma$  (LBD) (10  $\mu$ g)  
 3: His-PPAR $\gamma$  (LBD) (15  $\mu$ g)  
 4: His-PPAR $\gamma$  (LBD) (20  $\mu$ g)



SEC analysis of His-PPAR $\gamma$  (LBD) using a Superose 12 column at 0.4 ml/min in 50 mM sodium phosphate, 300 mM NaCl pH 7.5 monitored at 280 nm (The SEC was run after removal of glycerol and TCEP from the protein sample).

**RELATED PRODUCTS:**

- PPAR $\gamma$ , Human, Recombinant (Cat # 4371-10)
- PPAR gamma Antibody (Cat # 3809-100)
- PPAR gamma Blocking Peptide (Cat. No. 3809BP-50)
- PPAR $\gamma$  Antagonist, G3335 (Cat. No. 1979-10,-25)
- Ciglitazone (Cat. No. 1695-5)
- Pioglitazone (Cat. No. 1877-5,-25,-100)
- Rosiglitazone (Cat. No. 1559-5,-50,-100)
- GW1929 (Cat. No. 2057-5,-25)
- Troglitazone (Cat. No. 1696-5)

