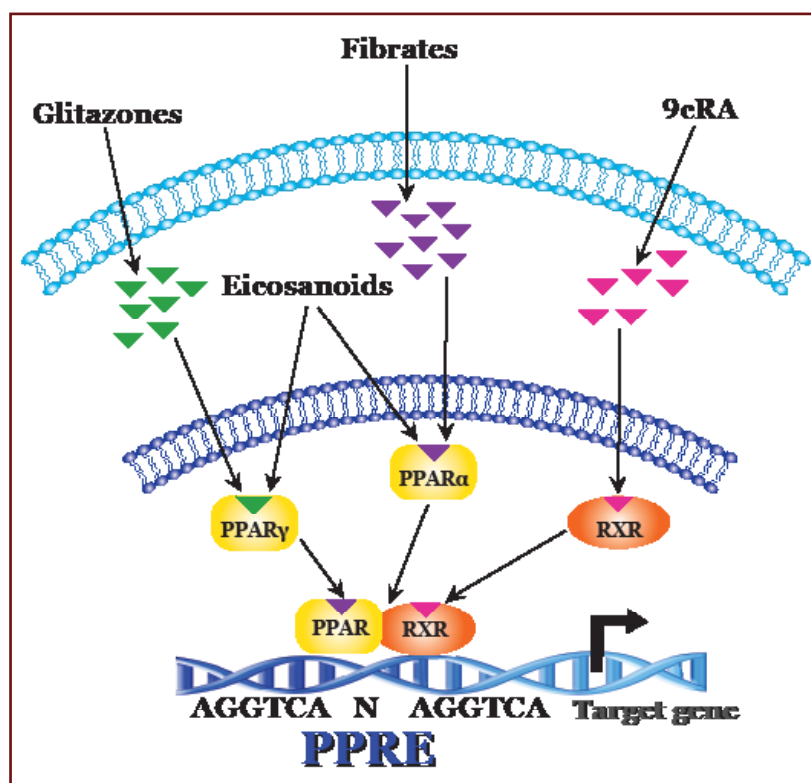


# PPAR Signaling

Peroxisome proliferator-activated receptors (PPARs) are ligand-activated transcription factors belonging to a nuclear hormone receptor superfamily, containing three isoforms ( $\alpha$ ,  $\beta/\delta$ , and  $\gamma$ ). PPARs are activated by naturally occurring fatty acids or fatty acid derivatives (e.g. eicosanoids) and play a critical physiological role in the regulation of numerous biological processes, including lipid and glucose metabolism, and overall energy homeostasis. Clinically, PPAR ligands like Glitazones (also known as Thiazolidinediones (TDZs)) are used for treatment of type 2 diabetes by decreasing insulin resistance. In addition, PPARs also have been implicated as modulators of obesity-induced inflammation making them interesting therapeutic targets to mitigate obesity-induced inflammation and its consequences. Heterodimers of PPAR and Retinoid X Receptor (RXR) form important transcription activators which upon binding PPAR response elements (PPRE) can modulate many important cell functions. For example, PPAR $\alpha$ -RXR dimers activate target genes which control peroxisome proliferation, fatty acid metabolism and lipid homeostasis, while PPAR $\gamma$ -RXR dimers affect adipocyte differentiation, glucose and insulin homeostasis and macrophage function.



## Antibodies

Product Name	Cat. No.	Size
PPAR gamma Antibody	3809	30 $\mu$ g, 100 $\mu$ g
PPAR gamma Blocking Peptide	3809BP	50 $\mu$ g
PPAR-alpha Antibody	3585	30 $\mu$ g, 100 $\mu$ g
PPAR-alpha Blocking Peptide	3585BP	50 $\mu$ g

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## Enzymes

Product Name	Cat. No.	Size
PPAR $\gamma$ , Human, Recombinant	4371	10 $\mu$ g
PPARG, Human Recombinant	P1120	10 $\mu$ g
PPAR $\gamma$ (LBD) Human Recombinant (His-tagged)	7878	20 $\mu$ g, 100 $\mu$ g, 500 $\mu$ g

## PPAR Agonists

Product Name	Cat. No.	Size	CAS Number
Ciglitazone	1695	5 mg	74772-77-3
EZSolution™ GW 9662	9651	5 mg	22978-25-2
GW-0742	B1100	5 mg, 25 mg	317318-84-6
GW1929	2057	5 mg, 25 mg	196808-24-9
GW501516	1971	1 mg, 5 mg	317318-70-0
GW-7647	9571	5 mg, 25 mg	265129-71-3
Pioglitazone	1877	5 mg, 25 mg, 100 mg	111025-46-8
EZSolution™ Pioglitazone	9650	5 mg	111025-46-8
Rosiglitazone	1559	5 mg, 50 mg, 100 mg	122320-73-4
Troglitazone	1696	5 mg	97322-87-7
WY-14643	2041	10 mg, 50 mg	50892-23-4
ZLN005	2550	10 mg, 50 mg	49671-76-3

## PPAR Antagonists

Product Name	Cat. No.	Size	CAS Number
GSK-0660	2897	5 mg, 25 mg	1014691-61-2
GW 9662	1697	5 mg	22978-25-2
EZSolution™ GW 9662	9651	5 mg	22978-25-2
GW-6471	9453	1 mg, 5 mg	880635-03-0
T0070907	2095	5 mg	313516-66-4

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