

PPAR Modulators

PPARs (Peroxisome proliferator-activated receptors) are endogenous ligand-activated transcription factors including PPAR α , PPAR β/δ and PPAR γ that are involved in the regulation of multiple complex metabolic pathways and cellular functions and play a central role in regulating not only energy homeostasis (mainly glucose and lipids), but also cell proliferation, inflammation and differentiation. Abnormalities in the metabolic processes of PPARs are closely associated with the onset of numerous diseases, including many types of cancer, non-alcoholic fatty liver disease, atherosclerosis and diabetes mellitus. Because of their role as multifunctional molecules possessing potent metabolic regulatory properties, synthetic PPAR modulators have been widely used in the treatment of a wide range of diseases. PPAR α agonists (e.g. fibrates) lower triglycerides and reverse insulin resistance and some of the antihypertriglyceridemic mechanisms of PPAR β/δ agonists involve AMPK activation. Thiazolidinediones (TZDs) are PPAR γ agonists primarily used for insulin sensitization in the treatment of type 2 diabetes and metabolic syndrome.

PPAR Activators Highlights

GW501516

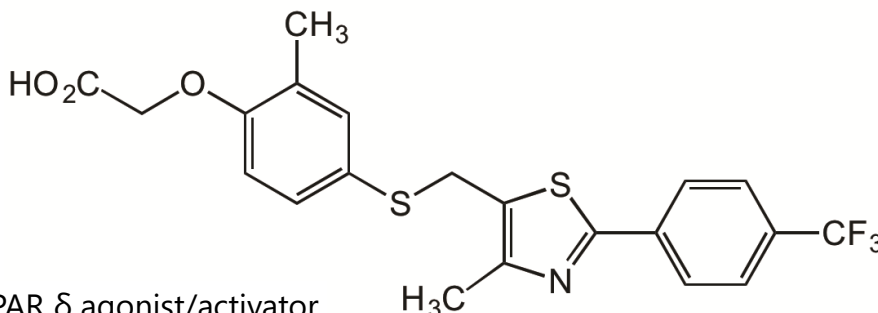
PID: AG-CR1-3641

Formula: C₂₁H₁₈F₃NO₃S₂

MW: 453.5

CAS: 317318-70-0

Description: Potent and selective PPAR δ agonist/activator with high affinity (K_i=1nM) and potency (EC₅₀=1nM) for PPAR δ and >1000 fold selectivity over PPAR α and PPAR γ .



Rosiglitazone . maleate

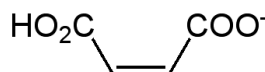
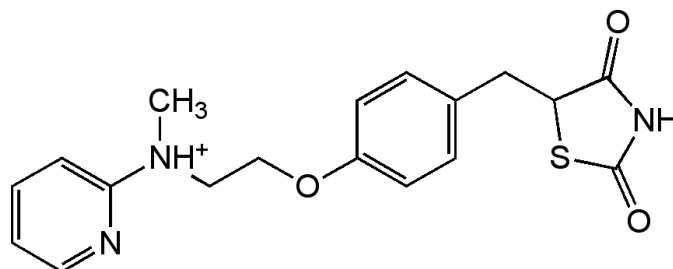
PID: AG-CR1-3571

Formula: C₁₈H₁₉N₃O₃S · C₄H₄O₄

MW: 357.4 . 116.1

CAS: 155141-29-0

Description: Potent and selective γ (PPAR- γ) agonist.



High Quality Biochemicals from Stock

PPAR Activators & Inhibitors

PRODUCT NAME	PID	CAS	TARGET	ACTIVITY
AICAR	AG-CR1-0061	2627-69-2	PPAR α	Inhibitor
Amorfrutin A	AG-CN2-0462	80489-90-3	PPAR γ	Activator
Amorfrutin B	AG-CN2-0464	78916-42-4	PPAR γ	Activator
(-)-Arctiin	AG-CN2-0532	20362-31-6	PPAR γ	Inhibitor
Asiatic acid	AG-CN2-0400	464-92-6	PPAR γ	Inhibitor
Astaxanthin	AG-CN2-0055	472-61-7	PPAR α PPAR γ	Activator Inhibitor
Astragaloside IV	CDX-A0577	84687-43-4	PPAR γ	Activator
(-)-Catechin	CDX-C0453	18829-70-4	PPAR γ	Activator
Ciglitazone	AG-CR1-0033	74772-77-3	PPAR γ	Activator
Curcumin (high purity)	AG-CN2-0059	458-37-7	PPAR γ	Activator
Dihydromyricetin	CDX-D0381	27200-12-0	PPAR γ	Activator
Eicosapentaenoic acid	CDX-C0465	10417-94-4	PPAR α	Activator
Emodin	AG-CN2-0457	518-82-1	PPAR γ	Activator
Enalaprilat	CDX-E0090	76420-72-9	PPAR β/δ	Activator
(+)-Etomoxir . Na	AG-CR1-3688	828934-41-4	PPAR α	Activator
Eupatilin	AG-CN2-0432	22368-21-4	PPAR α	Activator
Genistein	AG-CN2-0427	446-72-0	All PPAR isoforms	Activator
Glabridin	CDX-G0194	59870-68-7	PPAR γ	Activator
GW1929	AG-CR1-0116	196808-24-9	PPAR γ	Activator
Isorhamnetin	CDX-I0174	480-19-3	PPAR γ	Inhibitor
Luteolin	AG-CN2-0098	491-70-3	PPAR γ	Inhibitor
Magnolol	CDX-M0170	528-43-8	PPAR γ	Activator
Oleuropein	AG-CN2-0538	32619-42-4	PPAR γ	Inhibitor
Oridonin	CDX-O0131	28957-04-2	PPAR γ	Inhibitor
Pioglitazone	AG-CR1-0067	111025-46-8	PPAR γ	Activator
Pseudolaric acid B	AG-CN2-0083	82508-31-4	PPAR α	Activator
Rosiglitazone	AG-CR1-3570	122320-73-4	PPAR γ	Activator
Shogaol	CDX-S0279	555-66-8	PPAR γ	Activator
Troglitazone	AG-CR1-3565	97322-87-7	PPAR γ	Activator
WY-14643	AG-CR1-3566	50892-23-4	PPAR α	Activator