

Product Name: Rosiglitazone Revision Date: 11/04/2024

Product Data Sheet

Rosiglitazone

Cat. No.: A4304

CAS No.: 122320-73-4
Formula: C18H19N3O3S

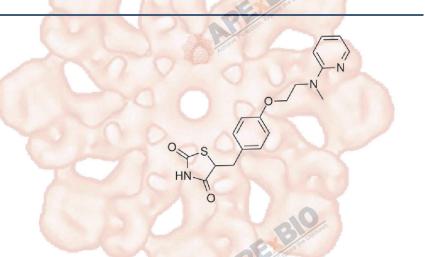
M.Wt: 357.43

Synonyms: Brl-49653, Brl 49653

Target: Metabolism

Pathway: PPAR

Storage: Store at -20°C



Solvent & Solubility

insoluble in EtOH; insoluble in H2O; ≥17.85 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.7978 mL	13.9888 mL	27.9775 mL
	5 mM	0.5596 mL	2.7978 mL	5.5955 mL
	10 mM	0.2798 mL	1.3989 mL	2.7978 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Cell Viability Assay Cell Line: Non-small cell lung carcinoma (NSCLC) cells (H1792 and H1838) Preparation method: The solubility of this compound in DMSO is >17.9 mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes	Shortsummary	Potent PPARy agonist	
Cell Line: Non-small cell lung carcinoma (NSCLC) cells (H1792 and H1838) Preparation method: The solubility of this compound in DMSO is >17.9 mg/mL. General tips for	IC ₅₀ & Target		El Como
Preparation method: The solubility of this compound in DMSO is >17.9 mg/mL. General tips for		Cell Viability Assay	
		Cell Line:	Non–small cell lung carcinoma (NSCLC) cells (H1792 and H1838)
In Vitro obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes	In Vitro	Preparation method:	The solubility of this compound in DMSO is >17.9 mg/mL. General tips for
			obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes
and/or shake it in the ultrasonic bath for a while. Stock solution can be stored			and/or shake it in the ultrasonic bath for a while. Stock solution can be stored
below -20°C for several months.			below -20°C for several months.
Reacting conditions: 10 µmol/L, 48 hours		Reacting conditions:	10 μmol/L, 48 hours

	Applications:	Rosiglitazone reduced the phosphorylation of Akt and increased phosphatase			
		and tensin homologue (PTEN) protein expression in non-small cell lung			
		carcinoma (NSCLC) cells (H1792 and H1838), and this was associated with			
	A RELIGION ENGINE DE LA LITTURA	inhibition of NSCLC cell proliferation. Rosiglitazone increased the			
		phosphorylation of AMP-activated protein kinase α (AMPKα), a downstream			
		The July State of the State of			
		kinase target for LKB1, whereas it decreased phosphorylation of p70 ribosomal			
		protein S6 kinase (p70S6K), a downstream target of mammalian target of			
		rapamycin (mTOR).			
In Vivo	Animal experiment				
	Animal models:	C57/BL6 mice			
	Dosage form:	8 mg/kg per day			
	Applications:	In C57/BL6 mice underwent femoral angioplasty, treatment with rosiglitazone			
	A P E Langue and Intercent	(8 mg/kg per day) attenuated neointimal formation. In a BM transplantation			
		model, Rosiglitazone caused a 6-fold increase in colony formation by human			
		endothelial progenitor cells, promoted the differentiation of APCs toward the			
		endothelial lineage in mouse BM in vivo and in human peripheral blood in vitro,			
		and inhibited the differentiation toward the smooth muscle cell lineage. Within			
		the neointima, rosiglitazone stimulated APCs to differentiate into mature			
		endothelial cells and caused earlier reendothelialization.			
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may			
		slightly differ with the theoretical value. This is caused by an experimental			
		system error and it is normal.			

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Han S W, Roman J. Rosiglitazone suppresses human lung carcinoma cell growth through PPARγ-dependent and PPARγ-independent signal pathways[J]. Molecular cancer therapeutics, 2006, 5(2): 430-437.

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[2]. Wang C H, Ciliberti N, Li S H, et al. Rosiglitazone facilitates angiogenic progenitor cell differentiation toward endothelial lineage[J]. Circulation, 2004, 109(11): 1392-1400.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APExBIO Technology

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