



LKT Laboratories, Inc.

Rosiglitazone

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Product Information

Product ID R5773

CAS No. 122320-73-4

Chemical Name 5-[[4-[2-(Methyl-2-pyridinylamino)ethoxy]phenyl]-methyl]-2,4-thiazolidinedione

Synonym BRL-49653

Formula C₁₈H₁₉N₃O₃S

Formula Wt. 357.43

Melting Point 153-155 °C

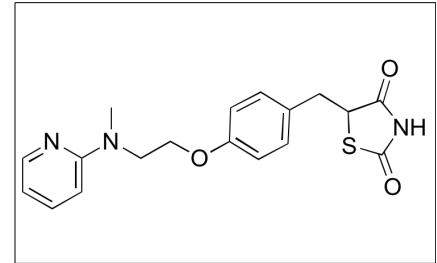
Purity ≥98%

Solubility Soluble in ethanol and in buffered aqueous solutions (pH of 2.3).

Store Temp Ambient

Ship Temp Ambient

Description Rosiglitazone is a thiazolidinedione insulin sensitizer that activates PPAR γ , decreasing blood glucose and insulin levels. Rosiglitazone exhibits anti-diabetic, anti-inflammatory, antioxidative, anticancer, anti-angiogenic, antihypertensive, and anti-fibrotic activities. In vivo, rosiglitazone decreases LPS-stimulated production of TNF- α , IL-1 β , and IL-6 as well as activity of myeloperoxidase; it also inhibits activation of NF- κ B, preventing mastitis. In multiple myeloma cells, rosiglitazone suppresses expression of HIF-1 α and IGF-1, decreases activation of Aky, and ERK, and inhibits cell viability and proliferation. This compound also inhibits endothelin-1-induced vasoconstriction in a NO-dependent manner in animal models of pulmonary arterial hypertension. Additionally, rosiglitazone prevents activation of AP-1, production of collagen, and differentiation in fibroblasts.



Bulk quantities available upon request

Product ID	Size
R5773	100 mg
R5773	500 mg
R5773	1 g
R5773	5 g

References Rui M, Huang Z, Liu Y, et al. Rosiglitazone suppresses angiogenesis in multiple myeloma via downregulation of hypoxia inducible factor 1 α and insulin like growth factor 1 mRNA expression. *Mol Med Rep.* 2014 Jul 22. [Epub ahead of print]. PMID: 25050627.

Mingfeng D, Xiaodong M, Yue L, et al. Effects of PPAR- γ Agonist Treatment on LPS-Induced Mastitis in Rats. *Inflammation.* 2014 May 18. [Epub ahead of print]. PMID: 24839089.

Liu Y, Tian XY, Huang Y, et al. Rosiglitazone Attenuated Endothelin-1-Induced Vasoconstriction of Pulmonary Arteries in the Rat Model of Pulmonary Arterial Hypertension via Differential Regulation of ET-1 Receptors. *PPAR Res.* 2014;2014:374075. PMID: 24701204.

He H, Tao H, Xiong H, et al. Rosiglitazone causes cardiotoxicity via peroxisome proliferator-activated receptor γ -independent mitochondrial oxidative stress in mouse hearts. *Toxicol Sci.* 2014 Apr;138(2):468-81. PMID: 24449420.

Hou X, Zhang Y, Shen YH, et al. PPAR- γ activation by rosiglitazone suppresses angiotensin II-mediated proliferation and phenotypic transition in cardiac fibroblasts via inhibition of activation of activator protein 1. *Eur J Pharmacol.* 2013 Sep 5;715(1-3):196-203. PMID: 23791613.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.