

Rosiglitazone, 50mM

Cell Culture Reagents-Hormone and Ligand

产品编号: CH004

产品描述: Thiazolidinediones (TZDs) are a group of structurally related peroxisome proliferator-activated receptor γ (PPAR γ) agonists with antidiabetic actions *in vivo*. Rosiglitazone (BRL 49653) is a prototypical TZD and has served as a reference compound for this class. Rosiglitazone is a potent and selective PPAR γ ligand. It binds to the PPAR γ ligand-binding domain with a K_d of 43 nM. It activates luciferase-based expression constructs PPAR γ 1 and PPAR γ 2 with EC₅₀ values of approximately 30 nM and 100 nM, respectively. Rosiglitazone is active *in vivo* as an antidiabetic agent in the *ob/ob* mouse model, and has been used as an oral hypoglycemic agent in the treatment of Type II diabetes in humans for many years.

中文名称: 罗格列酮

其它名称: BRL49653

分子式: C₁₈H₁₉N₃O₃S

分子量: 357.4

CAS 编号: 122320-73-4

产品类型: Ready-to-use, DMSO solution

纯度: $\geq 99\%$ (powder)

浓度: 50 mM

包装规格: 1 mL

储存温度: -20°C

参考文献:

- 1 Willson, T.M., Cobb, J.E., Cowan, D.J., et al. The structure-activity relationship between peroxisome proliferator-activated receptor γ agonism and the antihyperglycemic activity of thiazolidinediones. *J Med Chem* 39 665-668 (1996).
- 2 Cantello, B.C.C., Cawthorne, M.A., Cottam, G.P., et al. [[ω -(Heterocyclylamino)alkoxy]benzyl]-2,4-thiazolidinediones as potent antihyperglycemic agents. *J Med Chem* 37 3977-3985 (1994).
- 3 Lehmann, J.M., Moore, L.B., Smith-Oliver, T.A., et al. An antidiabetic thiazolidinedione is a high affinity ligand for peroxisome proliferator-activated receptor γ (PPAR γ). *J Biol Chem* 270 12953-12956 (1995).

FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC AND THERAPEUTIC PROCEDURES

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