

Ciglitazone

Chemical Properties

CAS No.:	74772-77-3
Formula:	C ₁₈ H ₂₃ NO ₃ S
Molecular Weight:	333.44
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Ciglitazone is a PPAR γ agonist. It decreases insulin levels, VEGF production, and blood pressure and induces cell cycle arrest in stomach cancer cells.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.999 mL	14.995 mL	29.990 mL
5 mM	0.600 mL	2.999 mL	5.998 mL
10 mM	0.300 mL	1.500 mL	2.999 mL
50 mM	0.060 mL	0.300 mL	0.600 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Shin SJ, Kim JY, Kwon SY, Mun KC, Cho CH, Ha E. Ciglitazone enhances ovarian cancer cell death via inhibition of glucose transporter-1. *Eur J Pharmacol.* 2014 Nov 15;743:17-23. doi: 10.1016/j.ejphar.2014.09.013. Epub 2014 Sep 21. PubMed PMID: 25240713.
2. Xu L, Wang S, Li B, Sun A, Zou Y, Ge J. A protective role of ciglitazone in ox-LDL-induced rat microvascular endothelial cells via modulating PPAR γ -dependent AMPK/eNOS pathway. *J Cell Mol Med.* 2015 Jan;19(1):92-102. doi: 10.1111/jcmm.12463. Epub 2014 Nov 11. PubMed PMID: 25388834; PubMed Central PMCID: PMC4288353.
3. Hann SS, Tang Q, Zheng F, Zhao S, Chen J, Wang Z. Repression of phosphoinositide-dependent protein kinase 1 expression by ciglitazone via Egr-1 represents a new approach for inhibition of lung cancer cell growth. *Mol Cancer.* 2014 Jun 13;13:149. doi: 10.1186/1476-4598-13-149. PubMed PMID: 24925061; PubMed Central PMCID: PMC4061523.
4. Otto S, Jaeger K, Kolodgie FD, Muehlstaedt D, Franz M, Bischoff S, Schubert H, Figulla HR, Virmani R, Poerner TC. A novel polymer-free ciglitazone-coated vascular stent: in vivo and ex vivo analysis of stent endothelialization in a rabbit iliac artery model. *Oncotarget.* 2016 Sep 6;7(36):57571-57580. doi: 10.18632/oncotarget.11584. PubMed PMID: 27613845; PubMed Central PMCID: PMC5295373.

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