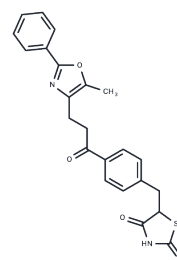


Darglitazone

Chemical Properties

CAS No. :	141200-24-0
Formula:	C ₂₃ H ₂₀ N ₂ O ₄ S
Molecular Weight:	420.48
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Darglitazone (CP-86325) is a potent, selective agonist of PPAR- γ with antidiabetic actions. Darglitazone is effective in controlling blood glucose and lipid metabolism.
Targets(IC ₅₀)	PPAR
In vitro	In cell lines representing white (3T3-L1 and 3T3-F442A) and brown (HIB-1B) adipose tissues and skeletal muscle (L6), Darglitazone(30 μ M) stimulated the expression of UCP2 gene probably via PPAR- γ and increased uncoupling protein 2 (UCP2) mRNA[1].
In vivo	In male diabetic ob/ob mice, Darglitazone dramatically reduces the infarct size in the ob/ob mice at 24h of recovery. Normalized blood glucose and reduced circulating triglycerides (TG) and very-low-density lipoproteins (VLDL) in diabetic ob/ob mice without having any effect in the nondiabetic mice. Darglitazone treatment restores acute cerebral inflammatory responses that were absent in the diabetic mice and profoundly improved their recovery from hypoxic-ischemic (H/I) insult[2].

Solubility Information

Solubility	DMSO: 55 mg/mL (130.8 mM), Ethanol: $\leq$ 5 mg/mL, ($<$ 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3782 mL	11.8912 mL	23.7823 mL
5 mM	0.4756 mL	2.3782 mL	4.7565 mL
10 mM	0.2378 mL	1.1891 mL	2.3782 mL
50 mM	0.0476 mL	0.2378 mL	0.4756 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

A Camirand, et al. Thiazolidinediones stimulate uncoupling protein-2 expression in cell lines representing white and brown adipose tissues and skeletal muscle. Endocrinology. 1998 Jan;139(1):428-31.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481