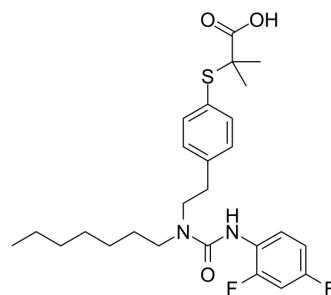


GW 9578

Cat. No.:	HY-117196
CAS No.:	247923-29-1
Molecular Formula:	C ₂₆ H ₃₄ F ₂ N ₂ O ₃ S
Molecular Weight:	492.62
Target:	PPAR
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	GW9578 is a subtype-selective PPAR α agonist (EC ₅₀ s of 5 and 50 nM for murine and human PPAR- α) with potent lipid-lowering activity ^{[1][2]} .	
IC₅₀ & Target	mouse PPAR α 5 nM (EC ₅₀)	h-PPAR α 50 nM (EC ₅₀)
In Vitro	<p>GW9578 exhibits activities on Murine PPAR-α, PPAR-γ, and PPAR-δ with EC₅₀s of 0.005, 1.5, 2.6 μM, respectively. GW9578 exhibits activities on Human PPAR-α, PPAR-γ, and PPAR-δ with EC₅₀s of 0.05, 1, and 1.4 μM, respectively^[2].</p> <p>Treatment of the CD8⁺ T-cell line, TK.1 cells with GW9578 (10 nM-1 μM; for 24 hours) is able to induce a dose-dependent increase in the amount of relative luciferase activity^[3].</p> <p>Treatment of murine T-cell thymoma EL-4 T cells with GW9578 (10 nM-10 μM; for 2 hours) leads to a significant decrease in IL-2 production compared with control cells^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	

REFERENCES

- [1]. P J Brown, et al. A ureido-thioisobutyric acid (GW9578) is a subtype-selective PPAR α agonist with potent lipid-lowering activity. *J Med Chem.* 1999 Sep 23;42(19):3785-8.
- [2]. Alexandre Trifilieff, et al. PPAR- α and - γ but not - δ agonists inhibit airway inflammation in a murine model of asthma: in vitro evidence for an NF- κ B-independent effect. *Br J Pharmacol.* 2003 May;139(1):163-71.
- [3]. Dallas C Jones, et al. Nuclear receptor peroxisome proliferator-activated receptor alpha (PPAR α) is expressed in resting murine lymphocytes. The PPAR α in T and B lymphocytes is both transactivation and transrepression competent. *J Biol Chem.* 2002 Mar 1;277(9):6838-45.

Caution: Product has not been fully validated for medical applications. For research use only.

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