## GW1929 hydrochloride

BIOLOGICAL ACT

Description

IC<sub>50</sub> & Target

In Vitro

MedChemExpress

Cat. No.:	HY-110022	
CAS No.:	1217466-21-1	
Molecular Formula:	$C_{30}H_{30}CIN_{3}O_{4}$	
Molecular Weight:	532.03	
Target:	PPAR	
Pathway:	Cell Cycle/DNA Damage	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

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IVI	ТҮ		
	GW1929 hydrochloride is an orally active peroxisome proliferator-activated receptor-γ (PPARγ) agonist with a pK <sub>i</sub> of 8.84 for human PPAR-γ, and pEC <sub>50</sub> s of 8.56 and 8.27 for human PPAR-γ and murine PPAR-γ, respectively. GW1929 hydrochloride ha antidiabetic efficacy and neuroprotective potential. GW1929 hydrochloride suppresses neuronal apoptosis and shows anti inflammatory potential <sup>[1][2][3]</sup> .	or Is İ-	
	hPPARγ 8.84 (pKi)		
	GW1929 hydrochloride is a potent PPAR-γ activator, with pK <sub>i</sub> s of 8.84, < 5.5, and < 6.5 for human PPAR-γ, PPAR-α, and PPAF δ, and pEC <sub>50</sub> s of 8.56 and 8.27 for human PPAR-γ and murine PPAR-γ, respectively <sup>[1]</sup> . GW1929 hydrochloride (10 μM) inhibits TBBPA-induced caspase-3 increase and TBBPA-stimulated LDH release in neocortic	₹- cal	

	cell cultures <sup>[2]</sup> .GW1929 hydrochloride shows significant reduction in the COX-2, iNOS, MMP-9, TNFα and IL-6 levels <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	<ul> <li>GW1929 hydrochloride (0.5, 1, 5 mg/kg, p.o.) highly decreases nonfasted plasma glucose levels in Zucker diabetic fatty (ZDF) rats after treatment for 14 days, and possesses antilipolytic efficacy<sup>[1]</sup>.</li> <li>GW1929 hydrochloride (1, 5 mg/kg, p.o.) increases glucose-stimulated insuline secretion of β-cell in ZDF rats<sup>[1]</sup>.GW1929 hydrochloride (10 mg/kg body weight) results in amelioration of muscle loss in tumour-bearing mice experimental cachexia <sup>[4]</sup>.</li> <li>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</li> </ul>

## REFERENCES

[1]. Brown KK, et al. A novel N-aryl tyrosine activator of peroxisome proliferator-activated receptor-gamma reverses the diabetic phenotype of the Zucker diabetic fatty rat. Diabetes. 1999 Jul;48(7):1415-24.

[2]. Wojtowicz AK, et al. PPAR-γ agonist GW1929 but not antagonist GW9662 reduces TBBPA-induced neurotoxicity in primary neocortical cells. Neurotox Res. 2014 Apr;25(3):311-22.

[3]. Kaundal RK, et al. Ameliorative effects of GW1929, a nonthiazolidinedione PPARy agonist, on inflammation and apoptosis in focal cerebral ischemic-reperfusion injury. Curr Neurovasc Res. 2011 Aug 1;8(3):236-45. [4]. Moore-Carrasco R, et al. Effects of the PPARgamma agonist GW1929 on muscle wasting in tumour-bearing mice. Oncol Rep. 2008 Jan;19(1):253-6.

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

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