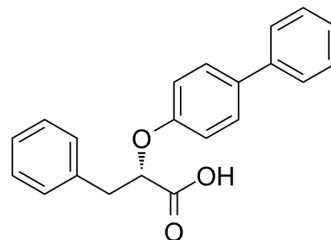


LT175

Cat. No.:	HY-121900
CAS No.:	862901-87-9
Molecular Formula:	C ₂₁ H ₁₈ O ₃
Molecular Weight:	318.37
Target:	PPAR
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	<p>LT175, a dual PPARα/γ ligand, is an orally active partial agonist against PPARγ (hPPARα:EC₅₀=0.22 μm; mPPARα:EC₅₀=0.26 μm; hPPARγ:EC₅₀=0.48 μm). LT175 interacts with PPARγ and affects the recruitment of the coregulators cyclic-AMP response element-binding protein-binding protein and nuclear corepressor 1 (NCoR1). LT175 interacts with PPARγ in a hydrophobic region called “diphenyl pocket”. LT175 has potent insulin-sensitizing effects and reduced adipogenic properties^[1].</p>		
IC₅₀ & Target	<p>hPPARα 0.22 μM (EC₅₀)</p>	<p>mPPARα 0.26 μM (EC₅₀)</p>	<p>hPPARγ 0.48 μM (EC₅₀)</p>
In Vivo	<p>LT175 (100 mg/kg/day; orally; for 3 days) induces a significant decrease in body weight (11%) and reduces fasting blood glucose, triglycerides, and free fatty acids. LT175 decreases total plasma cholesterol significantly in diet-induced Insulin-resistant mice (six-week-old C57Bl/6J male mice)^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>		

REFERENCES

[1]. Federica Gilardi, et al. LT175 is a novel PPAR α / γ ligand with potent insulin-sensitizing effects and reduced adipogenic properties. J Biol Chem. 2014 Mar 7;289(10):6908-6920.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA