

Product Data Sheet

PPARα/γ agonist 2

Cat. No.: HY-148922 CAS No.: 2213365-56-9

Molecular Formula: $C_{25}H_{20}O_3$ Molecular Weight: 368.42 Target: PPAR

Pathway: Cell Cycle/DNA Damage; Vitamin D Related/Nuclear Receptor

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

BIOLOGICAL ACTIVITY

Description	PPARα/γ agonist 2 is an orally active PPARα full agonist and PPARγ partial agonist. PPARα/γ agonist 2 activates PPARα and
	PPARγ with EC ₅₀ values of 0.95 μM and 0.91 μM respectively. PPARα/γ agonist 2 is also a PTP1B inhibitor. PPARα/γ agonist 2
	is an anti-diabetic agent $^{[1]}$

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IC₅₀ & Target PPARα PPARγ

 $0.95~\mu M~(EC50)$ $0.91~\mu M~(EC50)$

In Vitro PPAR α/γ agonist 2 (Compound 10) effectively inhibits PTP1B with an IC $_{50}$ of 13.2 μ M (kinetic assay)^[1].

PPAR α/γ agonist 2 (25 μ M, 30 min) enhances the uptake of glucose in an insulin-independent mechanism in C2C12 cells, and

is more efficient than UK5099 $(HY-15475)^{[1]}$.

PPAR α/γ agonist 2 (25 μ M, 30 min) decreases mitochondrial membrane potential in C2C12 cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo PPARα/γ agonist 2 (Compound 10) (25 and 50 mg/kg, p.o.) decreases blood glucose level and lipid content in STZ-induced diabetic mice^[1] 🛛

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	STZ-induced diabetic mice ^[1]
Dosage:	25 and 50 mg/kg
Administration:	p.o.
Result:	Reduced the levels of TC, HDL, LDL-C, VLDL-C, and TG. Brought diabetes-induced hyperlipidemia back to normal.

REFERENCES

[1]. Laghezza A, et al. A New Antidiabetic Agent Showing Short- and Long-Term Effects Due to Peroxisome Proliferator-Activated Receptor Alpha/Gamma Dual Agonism and Mitochondrial Pyruvate Carrier Inhibition. J Med Chem. 2023 Feb 15.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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