PPARγ/GR modulator 1

Cat. No.: HY-151963

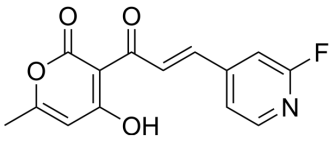
Molecular Formula: $C_{14}H_{10}FNO_4$

Molecular Weight: 275.23

Target: PPAR; Glucocorticoid Receptor

Pathway: Cell Cycle/DNA Damage; Immunology/Inflammation

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



BIOLOGICAL ACTIVITY

Description	PPARγ/GR modulator 1 is an orally active dual agonist of PPARγ and glucocorticoid receptor (GR), with K_is of 3.3 and 33.6 μM, respectively. PPARγ/GR modulator 1 can be used for the research of metabolic diseases, such as diabetes[1].

IC_{50} & Target	PPARγ	glucocorticoid receptor
	3.3 μM (Ki)	33.6 μM (Ki)

In Vitro

PPARγ/GR modulator 1 (compound 11) stimulates production of adiponectin and leptin in hBM-MSCs, with IC_{50}s of 2.87 and 2.82 μM, respectively[1].

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

In Vivo

PPARγ/GR modulator 1 (compound 11) (25-50 mg/kg; p.o. for 5 d) reduces serum glucose levels, serum lactate levels, and serum adiponectin levels in STZ-induced mouse model[1].

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

Animal Model:	5-week-old male C57BL/6J mice were injected with180 mg/kg of STZ[1]
Dosage:	25, 50 mg/kg
Administration:	Orally administration for 5 days
Result:	Significant reduced serum glucose levels, serum lactate levels, and serum adiponectin levels.

REFERENCES

[1]. Ahn S, et, al. Discovery of PPARγ and glucocorticoid receptor dual agonists to promote the adiponectin and leptin biosynthesis in human bone marrow mesenchymal stem cells. Eur J Med Chem. 2023 Jan 5;245(Pt 1):114927.

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