PPARα/γ agonist 1

Cat. No.: HY-143239

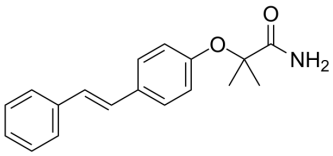
Molecular Formula: $C_{18}H_{19}NO_2$

Molecular Weight: 281.35

Target: PPAR

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

Storage: 4°C, stored under nitrogen, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (355.43 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5543 mL	17.7715 mL	35.5429 mL
	5 mM	0.7109 mL	3.5543 mL	7.1086 mL
	10 mM	0.3554 mL	1.7771 mL	3.5543 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

PPARα/γ agonist 1 is a potent and dual PPARα/γ partial agonist with EC_{50} values of 28 nM and 69 nM for PPARα and PPARγ, respectively. PPARα/γ agonist 1 is a promising prototype for dyslipidemia and diabetes research[1].

IC_{50} & Target	PPARα	PPARγ
	28 nM (EC50)	69 nM (EC50)

REFERENCES

[1]. Luiz A Dutra, et al. Discovery of (E)-4-styrylphenoxy-propanamide: A dual PPARα/γ partial agonist that regulates high-density lipoprotein-cholesterol levels, modulates adipogenesis, and improves glucose tolerance in diet-induced obese mice. Bioorg Chem. 2

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

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