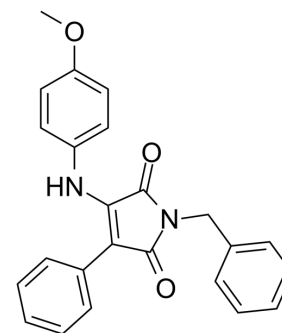


GSK3987

Cat. No.:	HY-123402		
CAS No.:	264206-85-1		
Molecular Formula:	C ₂₄ H ₂₀ N ₂ O ₃		
Molecular Weight:	384.43		
Target:	LXR		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (260.13 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6013 mL	13.0063 mL	26.0125 mL
	5 mM	0.5203 mL	2.6013 mL	5.2025 mL
	10 mM	0.2601 mL	1.3006 mL	2.6013 mL

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

BIOLOGICAL ACTIVITY

Description

GSK3987 is a pan LXR α / β agonist with EC₅₀s of 50 nM, 40 nM for LXR α -SRC1 and LXR β -SRC1, respectively. GSK3987 increases the expression of ABCA1 and SREBP-1c. GSK3987 induces cellular cholesterol efflux and triglyceride accumulation^[1].

IC₅₀ & Target

EC₅₀: 50 nM (LXR α); 40 nM (LXR β)^[1]

In Vitro

GSK3987 (compound 4) shows activity with EC₅₀s of 0.08 μ M, 50 nM, 40 nM for ABCA1, LXR α -SRC1, LXR β -SRC1, respectively^[1].

GSK3987 (30, 100, 300, 1000 nM) increases the expression of ABCA1 and induces cellular cholesterol efflux to apoA1 particles in a dose-dependent manner in primary human macrophages^[1].

GSK3987 (6-1500 nM) increases the expression of SREBP-1c and induces triglyceride accumulation in human hepatoma (HepG2) cells in a dose-dependent manner^[1].

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

RT-PCR^[1]

Cell Line:	HepG2 cells
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Concentration:	6-1500 nM
Incubation Time:	
Result:	Increased the expression of SREBP-1c and induced triglyceride accumulation in human hepatoma (HepG2) cells in a dose-dependent manner.

REFERENCES

[1]. HepG2 cells, ABCA1, SREBP-1c, cellular cholesterol, macrophages, triglyceride accumulation

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

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