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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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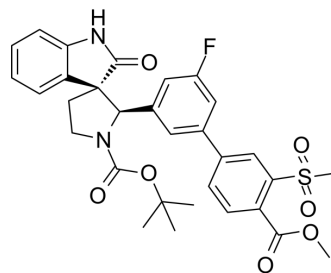
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LXR β agonist-4

Cat. No.:	HY-152262		
Molecular Formula:	C ₃₁ H ₃₁ FN ₂ O ₇ S		
Molecular Weight:	594.65		
Target:	LXR		
Pathway:	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (168.17 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.6817 mL	8.4083 mL	16.8166 mL
		5 mM		0.3363 mL	1.6817 mL	3.3633 mL
10 mM		0.1682 mL	0.8408 mL	1.6817 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.20 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	LXR β agonist-4 is a potent, orally active Liver X receptors (LXRs) agonist with an IC ₅₀ value of 0.0078 μ M for LXR β . LXR β agonist-4 inhibits RANKL-induced osteoclast differentiation and bone resorption. LXR β agonist-4 can be used in research of osteoporosis ^[1] .	
IC₅₀ & Target	EC ₅₀ : 7.8 nM (LXR β) ^[1]	
In Vitro	LXR β agonist-4 (compound B9; 0.03-10 μ M) inhibits RANKL-induced osteoclastogenesis and bone resorption ^[1] . LXR β agonist-4 (1 μ M; 0-24 h) regulates osteoclast relative gene expression and downstream of the LXR ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Western Blot Analysis ^[1]	
	Cell Line:	Osteoclast

	Concentration:	1 μ M
	Incubation Time:	0, 2, 4, 6, 12, and 24 hours
	Result:	Increased ABCG1 protein and decreased LDLR protein levels.
In Vivo	LXR β agonist-4 (compound B9; 10 mg/kg; i.g.) inhibits bone loss in ovariectomized female C57BL/6 mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	female C57BL/6 mice (20-25 g; 8 week old) ^[1]
	Dosage:	10 mg/kg
	Administration:	oral gavage; daily, for 4 weeks
	Result:	Reduced ovariectomy-induced bone resorption. Protected against OVX-induced bone loss by inhibiting the osteoclast number and activity.

REFERENCES

[1]. Chen H, et, al. Discovery of Spiro[pyrrolidine-3,3'-oxindole] LXR β Agonists for the Treatment of Osteoporosis. J Med Chem. 2023 Jan 12;66(1):752-765.

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

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