Lasofoxifene tartrate

MedChemExpress

®

Cat. No.:	HY-A0038	
CAS No.:	190791-29-8	~
Molecular Formula:	C ₃₂ H ₃₇ NO ₈	0~~N)
Molecular Weight:	563.64	
Target:	Estrogen Receptor/ERR	НО ОН
Pathway:	Vitamin D Related/Nuclear Receptor	но
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

In Vitro	DMSO : 83.33 mg/mL (147.84 mM; Need ultrasonic)						
		Solvent Mass 1 mg Concentration		5 mg	10 mg		
	Preparing Stock Solutions	1 mM	1.7742 mL	8.8709 mL	17.7418 mL		
		5 mM	0.3548 mL	1.7742 mL	3.5484 mL		
		10 mM	0.1774 mL	0.8871 mL	1.7742 mL		
	Please refer to the so	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: ≥ 2.08 mg/mL (3.69 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.69 mM); Clear solution					
		3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.69 mM); Clear solution					

BIOLOGICAL ACTIVITY						
Description	Lasofoxifene (CP-336156) tartrate is an orally active and selective estrogen receptor modulator (SERM) ^[1] . Lasofoxifene tartrate exhibits an anti-osteoporotic function and also inhibits primary tumor growth and metastases. Lasofoxifene tartrate can be used for the research of breast cancer and postmenopausal osteoporosis ^{[1][2]} .					
IC ₅₀ & Target	Target: Estrogen Receptor ^[1]					
In Vitro	Lasofoxifene tartrate (1 nM-1 μM; 48 h) shows antagonist activity on ER+ breast cancer cells without being affected by the expression level of activating ERα mutants relative to wild-type (WT) ERα ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.					

REFERENCES

shrinkage in Y537S and D538G tumors.

respectively.

[2]. Andreano KJ, et al. The Dysregulated Pharmacology of Clinically Relevant ESR1 Mutants is Normalized by Ligand-activated WT Receptor. Mol Cancer Ther. 2020 Jul. 19(7):1395-1405.

[1]. Lainé M, et al. Lasofoxifene as a potential treatment for therapy-resistant ER-positive metastatic breast cancer. Breast Cancer Res. 2021 May 12. 23(1):54.

[3]. Andersson A, et al. Selective oestrogen receptor modulators lasofoxifene and bazedoxifene inhibit joint inflammation and osteoporosis in ovariectomised mice with collagen-induced arthritis. Rheumatology (Oxford). 2016 Mar;55(3):553-63.

CUSTOMER VALIDATION

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Result:

Animal Model:

Administration:

Dosage:

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- NP.I Breast Cancer, 2022 Dec 14:8(1):130.
- Mol Cancer Ther. 2020 Jul;19(7):1395-1405.

• Gynecol Oncol. 2019 Jul;154(1):199-206.

Result:	Reduced in arthritis severity, including synovial inflammation and destruction of joints reduction. The mean arthritis frequency was 47% while the vehicle group was 81% at 42 days post immunization.
Animal Model:	NSG mices with xenograft tumors model (MIND, mammary intraductal): WT, Y537S and D538G $\mbox{ER}\alpha$ render tumors $^{[3]}$
Dosage:	1, 5, or 10 mg/kg
Administration:	Subcutaneous injection; 5 days per week; for 70 days

reducing metastases to the lung and the liver in mice^[3].

Lasofoxifene tartrate (4 mg/mice; s.c.; 5 day/week; for 43 d) decreases arthritis severity, by reducing cartilage oligomeric matrix protein (COMP), the serum marker of cartilage destruction and reducing serum IL-6 (inflammatory cytokine) levels^[1]. Lasofoxifene tartrate (4 mg/mice; s.c.; 5 day/week; for 43 d) protects against generalised bone loss in CIA by increasing

Lasofoxifene tartrate (5, and 10 mg/kg; s.c.; 5 day/week; for 70 d) exerts function of inhibiting primary tumor growth and

Post-menopausal RA model on OVX (ovariectomised) DBA/1 mice (female DBA/1 mice, 8-10

Subcutaneous injection; 5 days a week from the first signs of arthritis (day 18); 43 days

Elicited a superior inhibitory effect at a dose of 10 mg/kg, resulted potential tumor

And also reduced tumor weight to 60% for Y537S and 50% for D538G at 5 and 10 mg/kg,

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weeks old, CIA-treated)^[1]

4 mg/mouse/day

trabecular bone mineral density (BMD), cortical thickness in mice^[1].

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

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