YL-109

Cat. No.:	HY-18619		
CAS No.:	36341-25-0		
Molecular Formula:	C ₁₄ H ₁₁ NO ₂	S	
Molecular Weight:	257.31		
Target:	Aryl Hydrod	arbon Re	eceptor
Pathway:	Immunolog	gy/Inflam	mation
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (3	88.64 mM; Need ultrasonic)			
		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.8864 mL	19.4318 mL	38.8636 mL
		5 mM	0.7773 mL	3.8864 mL	7.7727 mL
		10 mM	0.3886 mL	1.9432 mL	3.8864 mL
	Please refer to the so	lubility information to select the ap	propriate solvent.		
In Vivo	1. Add each solvent o Solubility: ≥ 3 mg/	one by one: 10% DMSO >> 40% PE(mL (11.66 mM); Clear solution	G300 >> 5% Tween-8) >> 45% saline	
	2. Add each solvent o Solubility: 3 mg/m	one by one: 10% DMSO >> 90% (20 L (11.66 mM); Clear solution; Need (% SBE-β-CD in saline) ultrasonic		
	 Add each solvent of Solubility: ≥ 3 mg/ 	one by one: 10% DMSO >> 90% cor mL (11.66 mM); Clear solution	n oil		

BIOLOGICAL ACTIV	
Description	YL-109 is an antitumor agent that can induce carboxyl terminus of Hsp70-interacting protein (CHIP) expression through aryl hydrocarbon receptor (AhR) signaling. YL-109 has ability to inhibit breast cancer cell growth and invasiveness ^[1] .
In Vitro	YL-109 (0.001-10 μM; 96 h or 24 h) inhibits cell proliferation, motility, and invasiveness in breast cancer cells ^[1] . YL-109 (1 μM) increases both CHIP mRNA and protein levels in MDA-MB-231 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[1]
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	Cell Line:	MCF-7 and MDA-MB-231 cells
	Concentration:	0.001, 0.01, 0.1, 1, 10 µM
	Incubation Time:	96 hours
	Result:	Strongly inhibited cell proliferation of MCF-7 and MDA-MB-231 cells in a dose-dependent
Vivo	YL-109 (15 mg/kg; s.c. fo MCE has not independe	or every 2 d) inhibits both tumor growth and cancer metastasis of breast cancer cells in vivo ^[1] . ntly confirmed the accuracy of these methods. They are for reference only.
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CUSTOMER VALIDATION

• Research Square Preprint. 2023 Oct 3.

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REFERENCES

[1]. Hiyoshi H, et al. 2-(4-Hydroxy-3-methoxyphenyl)-benzothiazole suppresses tumor progression and metastatic potential of breast cancer cells by inducing ubiquitin ligase CHIP. Sci Rep. 2014 Nov 18;4:7095.

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

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