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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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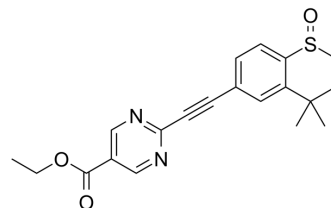
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WYC-209

Cat. No.:	HY-124136
CAS No.:	2131803-90-0
Molecular Formula:	C ₂₀ H ₂₀ N ₂ O ₃ S
Molecular Weight:	368.45
Target:	RAR/RXR; Apoptosis; Autophagy
Pathway:	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor; Apoptosis; Autophagy
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 83.33 mg/mL (226.16 mM; Need ultrasonic)					
	H ₂ O : < 0.1 mg/mL (insoluble)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.7141 mL	13.5704 mL	27.1407 mL
		5 mM		0.5428 mL	2.7141 mL	5.4281 mL
		10 mM		0.2714 mL	1.3570 mL	2.7141 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: ≥ 2.08 mg/mL (5.65 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.65 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	WYC-209, a synthetic retinoid, is a retinoic acid receptor (RAR) agonist. WYC-209 induces apoptosis primarily via the caspase 3 pathway (IC ₅₀ =0.19 μM for in malignant murine melanoma TRCs), and has long-term effects with little toxicity ^[1] .
IC ₅₀ & Target	Retinoic acid receptor ^[1]
In Vitro	WYC-209 (10 μM; 24 hours) is able to inhibit and block growth of TRCs of human tumor cells in culture with a long-lasting effect ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Apoptosis Analysis^[1]

Cell Line:	A2780, A549, MCF-7, MDA-MB-435s, A375 cells
Concentration:	10 μ M
Incubation Time:	24 hours
Result:	TRCs failed to resume growth 5 days after the drug washout.

In Vivo

WYC-209 (0.022-0.22 mg/kg; i.v.; once every two days for 25 days) inhibits tumor metastasis in C57BL/6 mice bearing lung metastases^[1].

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

Animal Model:	Female immune-competent C57BL/6 mice ^[1]
Dosage:	0.022, 0.22 mg/kg
Administration:	Intravenous injection; once every two days for 25 days
Result:	Four out of eight mice formed lung metastases at dose of 0.022 mg /kg, only one out of eight mice formed lung metastases at dose of 0.22 mg/kg.

REFERENCES

[1]. Chen J, et al. Inhibition of cancer stem cell like cells by a synthetic retinoid. Nat Commun. 2018 Apr 11;9(1):1406.

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

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