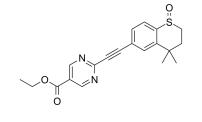
## WYC-209

®

MedChemExpress

Cat. No.:	HY-124136		
CAS No.:	2131803-90	-0	
Molecular Formula:	C <sub>20</sub> H <sub>20</sub> N <sub>2</sub> O <sub>3</sub> S	5	
Molecular Weight:	368.45		
Target:	RAR/RXR; A	poptosis	; Autophagy
Pathway:	Metabolic E Autophagy	Enzyme/P	Protease; Vitamin D Related/Nuclear Receptor; Apoptosis;
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



Product Data Sheet

## SOLVENT & SOLUBILITY

In Vitro	DMSO : 83.33 mg/mL ( H <sub>2</sub> O : < 0.1 mg/mL (ins	226.16 mM; Need ultrasonic) oluble)					
		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	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 solu	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	Solubility: ≥ 2.08 m	ne by one: 10% DMSO >> 40% PEC g/mL (5.65 mM); Clear solution ne by one: 10% DMSO >> 90% cor		0 >> 45% saline			
	Solubility: ≥ 2.08 m	g/mL (5.65 mM); Clear solution					

BIOLOGICAL ACTIV	
Description	WYC-209, a synthetic retinoid, is a retinoic acid receptor (RAR) agonist. WYC-209 induces apoptosis primarily via the caspase 3 pathway (IC <sub>50</sub> =0.19 μM for inmalignant murine melanoma TRCs), and has long-term effects with little toxicity <sup>[1]</sup> .
IC <sub>50</sub> & Target	Retinoic acid receptor <sup>[1]</sup>
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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

	Apoptosis Analysis <sup>[1]</sup>	
	Cell Line:	A2780, A549, MCF-7, MDA-MB-435s, A375 cells
	Concentration:	10 μΜ
	Incubation Time:	24 hours
	Result:	TRCs failed to resume growth 5 days after the drug washout.
In Vivo	metastases <sup>[1]</sup> .	y/kg; i.v.; once every two days for 25 days) inhibits tumor metastasis in C57BL/6 mice bearing lung ntly confirmed the accuracy of these methods. They are for reference only.
In Vivo	metastases <sup>[1]</sup> .	z/kg; i.v.; once every two days for 25 days) inhibits tumor metastasis in C57BL/6 mice bearing lung ntly confirmed the accuracy of these methods. They are for reference only. Female immune-competent C57BL/6 mice <sup>[1]</sup>
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## 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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