AGN194204

MedChemExpress

Cat. No.:	HY-13717		
CAS No.:	220619-73-8	3	
Molecular Formula:	$C_{24}H_{32}O_{2}$		
Molecular Weight:	352.51		
Target:	RAR/RXR; A	poptosis	
Pathway:	Metabolic E	nzyme/Pi	rotease; Vitamin D Related/Nuclear Receptor; Apoptosis
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

	Mass Solvent Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.8368 mL	14.1840 mL	28.3680 ml
	5 mM	0.5674 mL	2.8368 mL	5.6736 mL
	10 mM	0.2837 mL	1.4184 mL	2.8368 mL

BIOLOGICAL ACT	νιτγ
Description	AGN194204 (IRX4204) is an orally active and selective RXR agonist with K _d values 0.4 nM, 3.6 nM and 3.8 nM and EC ₅₀ s of 0.2 nM, 0.8 nM and 0.08 nM for RXRα, RXRβ and RXRγ, respectively. AGN194204 is inactive against RAR. AGN194204 has anti- inflammatory and anticarcinogenic actions ^{[1][2]} .

 β and RXRy, respectively. AGN194204 is inactive against RAR. AGN194204 has antitions^{[1][2]}. AGN194204 (NRX194204; 0-100 nM; 24 hours; E, RAW cells) treatment blocks the ability of lipopolysaccharide and tumor In Vitro necrosis factor-a to induce the release of nitric oxide and interleukin 6 and the degradation of IKBa in RAW264.7 macrophage-like cells^[1]. AGN194204 (NRX194204; 1 µM; 72 hours; SK-BR-3 human breast cancer cells) treatment induces apoptosis in breast cancer cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Apoptosis Analysis^[1] Cell Line: SK-BR-3 human breast cancer cells Concentration: 1 μM

Product Data Sheet

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	Incubation Time:	72 hours				
	Result:	Induced apoptosis in lung and breast cancer cells.				
	Western Blot Analysis ^[1]	Western Blot Analysis ^[1]				
	Cell Line:	E, RAW cells				
	Concentration:	0 nM, 1 nM, 10 nM and 100 nM				
	Incubation Time:	24 hours				
	Result:	Blocked the ability of lipopolysaccharide and tumor necrosis factor-α to induce the releat of nitric oxide and interleukin 6 and the degradation of IKBα in RAW264.7 macrophage-lik				
		cens.				
Vivo	AGN194204 (NRX194204 reduces the number and 81% compared with the MCE has not independe	t; 30-60 mg/kg; oral administration; daily; for 15 weeks; female A/J mice) treatment significantly d size of tumors on the surface of the lungs and reduces the total tumor volume per slide by 64% e control group ^[1] . ntly confirmed the accuracy of these methods. They are for reference only.				
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REFERENCES

[1]. Liby K, et al. A new rexinoid, NRX194204, prevents carcinogenesis in both the lung and mammary gland. Clin Cancer Res. 2007 Oct 15;13(20):6237-43.

[2]. Vuligonda V, et al. Enantioselective syntheses of potent retinoid X receptor ligands: differential biological activities of individual antipodes. J Med Chem. 2001 Jul 5;44(14):2298-303.

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

Tel: 609-228-6898Fax: 609-228-5909E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA