AGN 194078

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MedChemExpress

Cat. No.:	HY-100273				
CAS No.:	321995-62-4				
Molecular Formula:	$C_{22}H_{23}F_{2}NO_{4}$				
Molecular Weight:	403.42				
Target:	RAR/RXR; Autophagy				
Pathway:	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor; Autophagy				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	2.4788 mL	12.3940 mL	24.7881 mL			
		5 mM	0.4958 mL	2.4788 mL	4.9576 mL			
		10 mM	0.2479 mL	1.2394 mL	2.4788 mL			
	Please refer to the sc	lubility information to select the ap	propriate solvent.					
ivo	Solubility: ≥ 2.5 m 2. Add each solvent	one by one: 10% DMSO >> 40% PE0 g/mL (6.20 mM); Clear solution one by one: 10% DMSO >> 90% (20 g/mL (6.20 mM); Clear solution						
		 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.20 mM); Clear solution 						

BIOLOGICAL ACTIVITY				
Description	AGN 194078 is a selective RAR agonist with a K_d and EC_{50} of 3 and 112 nM, respectively.			
IC₅₀ & Target	Kd: 4 nM (RARα) ^[1] EC50: 140 nM (RARα) ^[1]			
In Vitro	AGN 194078 is a selective RARα agonist and binds to RARα with very high affinity, having a K _d value of 3 nM, while being unable to bind to RARβ and binding only very weakly (K _d =5600 nM) to RARγ. Furthermore, AGN 194078 maintains full			

Product Data Sheet

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|| 0 transcriptional activity through RAR α , with an EC₅₀ value of 112 nM, but only activated RAR β and RAR γ with about 10% efficacy at the highest dose (1000 nM) tested^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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REFERENCES

[1]. Beard RL, et al. Synthesis and biological activity of retinoic acid receptor-alpha specific amides. Bioorg Med Chem Lett. 2002 Nov 4;12(21):3145-8.

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

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