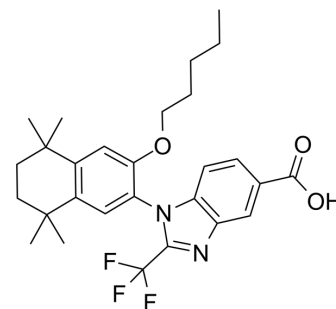


RXR antagonist 1

Cat. No.:	HY-144377		
CAS No.:	3010910-40-1		
Molecular Formula:	C ₂₈ H ₃₃ F ₃ N ₂ O ₃		
Molecular Weight:	502.57		
Target:	RAR/RXR		
Pathway:	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (198.98 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.9898 mL	9.9489 mL	19.8977 mL	
		5 mM	0.3980 mL	1.9898 mL	3.9795 mL	
10 mM		0.1990 mL	0.9949 mL	1.9898 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: 2.5 mg/mL (4.97 mM); Clear solution; Need ultrasonic 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (4.97 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	RXR antagonist 1 (compound 6a) is a retinoid X receptor (RXR) modulator. RXR antagonist 1 shows potent RXR-antagonistic activity, with a pA ₂ of 8.06. RXR antagonist 1 can be used for type 2 diabetes research ^[1] .
In Vitro	RXR antagonist 1 (compound 6a) shows potent RXR-antagonistic activities at 1 μM ^[1] . RXR antagonist 1 shows competitive binding to the LBP in hRXRα-LBD, with K _i of 0.384 ± 0.072, K _d of 0.277 ± 0.038, and K _i /K _d of 1.39 ^[1] . The cell permeability of RXR antagonist 1 shows no correlation with RXR-antagonistic activity ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Masaki Watanabe, et al. Increased Molecular Flexibility Widens the Gap between K_i and K_d values in Screening for Retinoid X Receptor Modulators. ACS Med. Chem. Lett. 2022, 13, 2, 211-217.

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

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