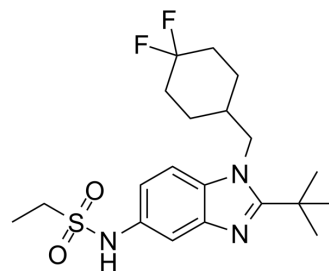


AZD1940

Cat. No.:	HY-119104		
CAS No.:	881413-29-2		
Molecular Formula:	C ₂₀ H ₂₉ F ₂ N ₃ O ₂ S		
Molecular Weight:	413.52		
Target:	Cannabinoid Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
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 (241.83 mM; Need ultrasonic)					
		Solvent	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	Concentration				
		1 mM		2.4183 mL	12.0913 mL	24.1826 mL
5 mM			0.4837 mL	2.4183 mL	4.8365 mL	
	10 mM		0.2418 mL	1.2091 mL	2.4183 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 (6.05 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.05 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	AZD1940 is an orally active, high affinity cannabinoid CB1/CB2 receptor agonist with pK _i values of 7.93 and 9.06 for human CB1R and CB2R, respectively. AZD1940 shows a robust analgesia action ^{[1][2]} .	
IC₅₀ & Target	hCB1-R 7.93 (pKi)	hCB2-R 9.06 (pKi)
In Vitro	AZD1940 binds with high affinity to human, rat and mouse CB1 and CB2 receptors and displays full agonism at both receptors in all three species ^{[1][2]} . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

In Vivo

When given orally to rats, AZD1940 produces a robust analgesia in different models of inflammatory and neuropathic pain^[1] [2].

For AZD1940, low brain uptake at analgesic doses has been demonstrated in both rats and primates^[1].

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

REFERENCES

[1]. Jarkko Kalliomäki, et al. Evaluation of the analgesic efficacy and psychoactive effects of AZD1940, a novel peripherally acting cannabinoid agonist, in human capsaicin-induced pain and hyperalgesia. Clin Exp Pharmacol Physiol. 2013 Mar;40(3):212-8.

[2]. Magnus Schou, et al. Radiolabeling of the cannabinoid receptor agonist AZD1940 with carbon-11 and PET microdosing in non-human primate. Nucl Med Biol. 2013 Apr;40(3):410-4.

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

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