Bay 59-3074

Cat. No.:	HY-100488		
CAS No.:	406205-74-	1	
Molecular Formula:	C ₁₈ H ₁₃ F ₆ NO	۶	
Molecular Weight:	453.36		
Target:	Cannabino	id Recept	or
Pathway:	GPCR/G Pro	otein; Nei	uronal Signaling
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL (220.58 mM) * "≥" means soluble, but saturation unknown.						
	Conc	Solvent Mass Concentration	1 mg	5 mg	10 mg		
P	Preparing Stock Solutions	1 mM	2.2058 mL	11.0288 mL	22.0575 mL		
		5 mM	nM 0.4412 mL 2.2058 mL 4.411	4.4115 mL			
		10 mM	0.2206 mL	1.1029 mL	2.2058 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent Solubility: ≥ 2.5 m	one by one: 10% DMSO >> 90% corr g/mL (5.51 mM); Clear solution	n oil				

DIOLOGICAL ACTIV			
Description	Bay 59-3074 is a selective cannabinoid CB_1/CB_2 receptor partial agonist with K _i values of 48.3 and 45.5 nM at human CB_1 and CB_2 receptors, respectively. Bay 59-3074 has analgesic properties ^[1] .		
IC₅₀ & Target	CB1 48.3 nM (Ki)	CB2 45.5 nM (Ki)	
In Vivo	BAY 59-3074 (0.3-3 mg/kg; ora antiallodynic effects against t MCE has not independently co	Il administration; daily; for 2 weeks; male Wistar rats) treatment improves antihyperalgesic and hermal or mechanical stimuli in rat models of chronic neuropathic and inflammatory pain. onfirmed the accuracy of these methods. They are for reference only.	

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Animal Model:	Male Wistar rats (160-250 g) ^[1]
Dosage:	0.3 mg/kg, 1 mg/kg, and 3 mg/kg
Administration:	Oral administration; daily; for 2 weeks.
Result:	Antiallodynic efficacy in the spared nerve injury model was maintained after 2 weeks of daily administration. Tolerance developed rapidly (within 5 days) for cannabinoid-related side effects. Antihyperalgesic and antiallodynic efficacy was maintained/increased.

REFERENCES

[1]. De Vry J et al. 3-[2-cyano-3-(trifluoromethyl)phenoxy]phenyl-4,4,4-trifluoro-1-butanesulfonate (BAY 59-3074): a novelcannabinoid Cb1/Cb2 receptor partial agonist with antihyperalgesic and antiallodynic effects. J Pharmacol Exp Ther. 2004 Aug;310(2):620-32.

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

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