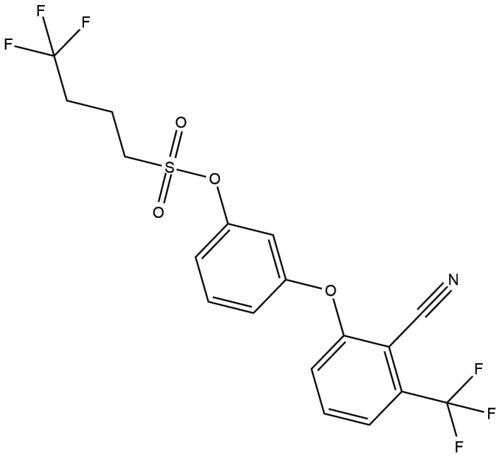
Product Data Sheet

Product Name: Bay 59-3074
Cat. No.: GC19060

Chemical Properties

Cas. No.	406205-74-1		
SMILES	O=S(CCCC(F)(F)F)(OC1=CC=CC(OC2=CC=CC(C(F)(F)F)=C2C#N)=C1)=O		
Formula	$C_{18}H_{13}F_6NO_4S$	M.Wt	453.36
Solubility	DMSO : ≥ 34 mg/mL (75.00 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Bay 59-3074 is a novel, selective CB1/CB2 receptor partial agonist with Ki values of 48.3 and 45.5 nM at human CB1 and CB2 receptors respectively . Orally active CB1 agonist in vivo. target: CB1/CB2 receptor partial agonist.Ki: 48.3 and 45.5 nM (CB1 and CB2 receptors)In vitro: analgesic, antihyperalgesic, and antiallodynic properties in rat models of acute and chronic pain. The reference concentration is 10 uM. [1]In vivo: administration of BAY 59-3074 (ED50 value: 0.41 mg/kg).Orally active CB1 agonist in vivo. [2] BAY 59-3074 (0.3-3 mg/kg, p.o.) induce antihyperalgesic and antiallodynic effects against thermal or mechanical stimuli in rat models of chronic neuropathic.

Caution: Product has not been fully validated for medical applications. For research use only.
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Antiallodynic efficacy of BAY 59-3074 (1 mg/kg, p.o.) in the spared nerve injury model was maintained after 2 weeks of daily administration. However, tolerance developed rapidly (within 5 days) for cannabinoid-related side effect. [1] BAY 59-3074 have analgesic, antihyperalgesic, and antiallodynic properties in rat models of acute and chronic pain.[1]

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
[2]. De Vry J et al. Discriminative stimulus effects of the structurally novel cannabinoid CB1/CB2 receptor partial agonist BAY 59-3074 in the rat. Eur J Pharmacol. 2004 Nov 28;505(1-3):127-33.

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