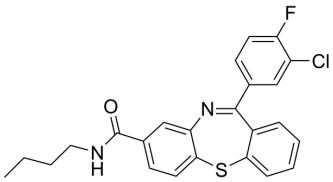
CB1 inverse agonist 2

Cat. No.:	HY-12095
CAS No.:	1019839-52-1
Molecular Formula:	$C_{24}H_{20}ClFN_2OS$
Molecular Weight:	438.94
Target:	Cannabinoid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CB1 inverse agonist 2 is an orally active inverse agonist of Cannabinoid Receptor CB1. CB1 inverse agonist 2 effectively inhibits CP55940-induced hypothermia and anorexia in mice model[1].	
IC_{50} & Target	CB1 9.7 (pKi)	CB2 6.0 (pKi)
In Vitro	CB1 inverse agonist 2 (compound 12 h) shows selectivity on CB1 over CB2 with pK_i values of 9.7 and 6.0, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	CB1 inverse agonist 2 (compound 12 h) (1 mg/kg; i.p.; single dose) results 70% inhibition against hypothermia, as well as (10 mg/kg; p.o.; single dose) resulting 59% inhibition against food intake[1]. CB1 inverse agonist 2 (10 mg/kg; p.o.; once daily for 14 d) produces robust weight loss of approximately 13% of initial body weight in mouse[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Pettersson H, et al. Synthesis and evaluation of dibenzothiazepines: a novel class of selective cannabinoid-1 receptor inverse agonists. J Med Chem. 2009 Apr 9;52(7):1975-82.

[2]. Synthesis and Evaluation of Dibenzothiazepines: A Novel Class of Selective Cannabinoid-1 Receptor Inverse AgonistsJ. Med. Chem., 2009, 52 (7), pp 1975-1982

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA