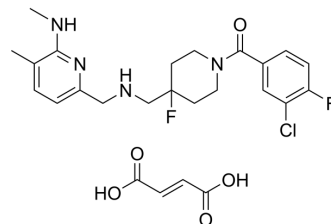


F 13714 fumarate

Cat. No.:	HY-128901
CAS No.:	208109-39-1
Molecular Formula:	C ₂₅ H ₂₉ ClF ₂ N ₄ O ₅
Molecular Weight:	538.97
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (463.85 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.8554 mL	9.2770 mL	18.5539 mL
				5 mM	0.3711 mL	1.8554 mL	3.7108 mL
				10 mM	0.1855 mL	0.9277 mL	1.8554 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.64 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.64 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	F13714 fumarate, a selective 5-HT _{1A} receptor biased agonist, shows antidepressant-like properties after a single administration in the mouse model of chronic mild stress ^[1] .
IC ₅₀ & Target	5-HT _{1A} Receptor
In Vitro	F13714 targets 5-HT _{1A} autoreceptors ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	In UCMS mice, a single administration of F13714 (4–16 mg/kg) is sufficient to robustly normalize depressive-like behavior in the forced swim test (FST). F13714 rescues cortical and hippocampal deficits in p-ERK1/2 levels but does not influence the p-CREB levels ^[1] .

F13714 decreases the immobility in mice at the doses 2 and 4 mg/kg by 30.3% and 19.5%^[1].

F13714 (0.5-2 mg/kg) given alone significantly and dose-dependently decreases rectal body temperature in mice during a 2-h measurement^[1].

F13714 (2.5 mg/kg) possess antidepressant-and anxiolytic-like properties in naïve rats^[1].

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

REFERENCES

[1]. Monika Gluch-Lutwin, et al. The selective 5-HT 1A receptor biased agonists, F15599 and F13714, show antidepressant-like properties after a single administration in the mouse model of unpredictable chronic mild stress. *Psychopharmacology (Berl)*. 2021 May 10.

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

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