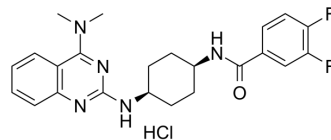


ATC0175

Cat. No.:	HY-107624
CAS No.:	510733-97-8
Molecular Formula:	C ₂₃ H ₂₆ ClF ₂ N ₅ O
Molecular Weight:	461.94
Target:	MCHR1 (GPR24)
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 : 12.5 mg/mL (27.06 mM); ultrasonic and warming and heat to 60°C

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.1648 mL	10.8239 mL	21.6478 mL	
5 mM	0.4330 mL	2.1648 mL	4.3296 mL	
10 mM	0.2165 mL	1.0824 mL	2.1648 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

ATC0175 is a potent, selective and orally active melanin-concentrating hormone 1 receptor antagonist with IC₅₀s of 13.5, >10000 nM for MCH1R, MCH2R, respectively. ATC0175 shows antidepressant effects and anxiolytic effects in animal models. ATC0175 has the potential for the research of depression and/or anxiety disorders^[1].

IC₅₀ & Target

IC₅₀: 13.5 nM (MCH1R); >10000 nM (MCH2R)^[1].

In Vitro

ATC0175 shows affinity for 5-HT2B and 5-HT1A with IC₅₀s of 9.66 and 16.9 nM respectively^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

ATC0175 (1, 3, 10 mg/kg; p.o.) significantly and dose-dependently reduces immobility time, indicating antidepressant like potential^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Chaki S, Yamaguchi J, Yamada H, Thomsen W, Tran TA, Semple G, Sekiguchi Y. ATC0175: an orally active melanin-concentrating hormone receptor 1 antagonist for the potential treatment of depression and anxiety. CNS Drug Rev. 2005 Winter;11(4):341-52.

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

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