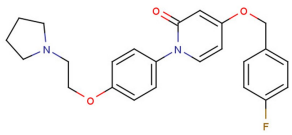
Data Sheet (Cat.No.T13101)

TargetMol
A DRUG SCREENING EXPERT

TC-MCH 7c

Chemical Properties



CAS No.:	864756-35-4
Formula:	C24H25FN2O3
Molecular Weight:	408.47
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	TC-MCH 7c is an orally available, selective and brain-penetrable antagonist of MCH1R(IC50 of 5.6 nM for hMCH1R),and is a phenylpyridone derivative.
Targets(IC_{50})	hMCH1R: (ki)3.4 nM mouse MCH1R: 3.0 nM
In vitro	In [Ca2+]i mobilization, TC-MCH 7c has an IC50 of 9.7 μM for MCH1R [1]. TC-MCH 7c has IC50s of 23 nM and 9.0 μM for FLIPR and hERG, respectively[2].
In vivo	In DIO mice model, TC-MCH 7c (oral; 3-30 mg/kg; once-daily for 1.5 months) exhibits excellent body weight reduction in a dose-dependent manner [1]. TC-MCH 7c (oral; 3-30 mg/kg) with 30 mg/kg has plasma concentrations of 5.1, 1.8, and 0.7 μM at 2, 15, and 24 hours, respectively[2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.448 mL	12.241 mL	24.482 mL
5 mM	0.49 mL	2.448 mL	4.896 mL
10 mM	0.245 mL	1.224 mL	2.448 mL
50 mM	0.049 mL	0.245 mL	0.49 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Ito M, et al. Melanin-concentrating hormone 1-receptor antagonist suppresses body weight gain correlated with high receptor occupancy levels in diet-induced obesity mice. Eur J Pharmacol. 2009 Dec 10;624(1-3):77-83.
2. Haga Y, et al. Discovery of novel phenylpyridone derivatives as potent and selective MCH1R antagonists. Bioorg Med Chem. 2011 Jan 15;19(2):883-93.

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