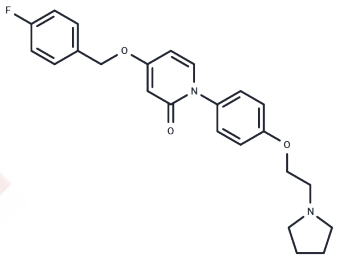
Data Sheet (Cat.No.T13101)

TargetMol

TC-MCH 7c

Chemical Properties



CAS No. : 864756-35-4

Formula: C24H25FN2O3

Molecular Weight: 408.47

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	TC-MCH 7c is an oral, selectable and blood-brain barrier penetrating MCH1R antagonist with IC50 performance of 5.6 nM against hMCH1R, and TC-MCH 7c is a phenylpyridone derivative with MCH1R Ki of 3.4 nM against human. In mice, MCH1R Ki was 3.0 nM.
Targets(IC50)	Melanin-concentrating Hormone Receptor (MCHR)
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) shows excellent body weight reduction in a dose-dependent manner [1]. TC-MCH 7c(oral; 3 to 30mg /kg) and 30mg /kg at 2, 15 and 24 h were 5.1, 1.8 and 0.7 μM, respectively[2].

Solubility Information

Solubility	DMSO: 55 mg/mL (134.65 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4482 mL	12.2408 mL	24.4816 mL
5 mM	0.4896 mL	2.4482 mL	4.8963 mL
10 mM	0.2448 mL	1.2241 mL	2.4482 mL
50 mM	0.049 mL	0.2448 mL	0.4896 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

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.
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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