

**Product Name:** TC-MCH 7c

**Catalog No.:** 4365

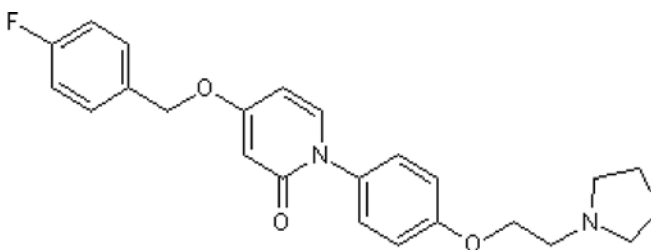
**Batch No.:** 2

CAS Number: 864756-35-4

IUPAC Name: 4-[(4-Fluorophenyl)methoxy]-1-[4-[2-(1-pyrrolidinyl)ethoxy]phenyl]-2(1*H*)-pyridinone

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>24</sub>H<sub>25</sub>FN<sub>2</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 408.47  
**Physical Appearance:** Off White solid  
**Solubility:** 1eq. HCl to 100 mM  
DMSO to 50 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.28 (Chloroform:Methanol:Aqueous Ammonia [90:9:1])  
**HPLC:** Shows 99.1% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	70.57	6.17	6.86
Found	70.54	6.17	6.83

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**bio-techne.com**

info@bio-techne.com  
techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com  
Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors  
Tel:+1 612 379 2956

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**Description:**

Potent, selective melanin-concentrating hormone receptor 1 (MCH<sub>1</sub>R) antagonist (IC<sub>50</sub>= 5.6 nM in hMCH<sub>1</sub>R-expressing CHO cells). Displays selectivity for MCH<sub>1</sub>R over MCH<sub>2</sub>R (IC<sub>50</sub> = > 10 μM). Decreases body weight in a mouse model of diet-induced obesity. Brain penetrant; orally active.

**Physical and Chemical Properties:**

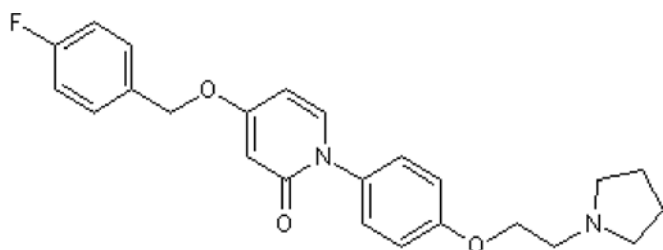
Batch Molecular Formula: C<sub>24</sub>H<sub>25</sub>FN<sub>2</sub>O<sub>3</sub>

Batch Molecular Weight: 408.47

Physical Appearance: Off White solid

**Minimum Purity:** ≥97%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

1eq. HCl to 100 mM

DMSO to 50 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Haga et al** (2011) Discovery of novel phenylpyridone derivatives as potent and selective MCH1R antagonists. *Bioorg.Med.Chem.* **19** 883. PMID: 21190859.

**Ito et al** (2009) Melanin-concentrating hormone 1-receptor antagonist suppresses body weight gain correlated with high receptor occupancy levels in diet-induced obesity mice. *Eur.J.Pharmacol.* **624** 77. PMID: 19836369.

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