

## Certificate of Analysis

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**Product Name:** GW 803430

**Catalog No.:** 4242

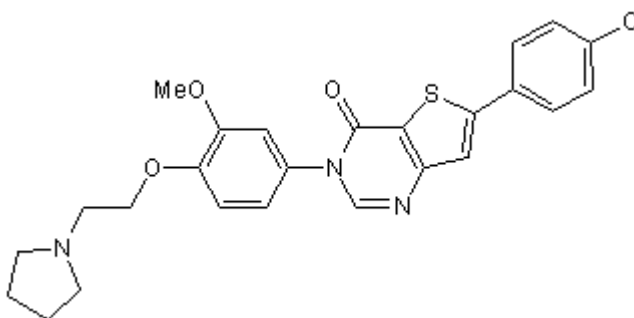
**Batch No.:** 1

CAS Number: 515141-51-2

IUPAC Name: 6-(4-Chlorophenyl)-3-[3-methoxy-4-[2-(1-pyrrolidinyl)ethoxy]phenyl]-thieno[3,2-*d*]pyrimidin-4(3*H*)-one

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>25</sub>H<sub>24</sub>ClN<sub>3</sub>O<sub>3</sub>S  
**Batch Molecular Weight:** 481.99  
**Physical Appearance:** White solid  
**Solubility:** 1eq. HCl to 25 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.26 (Dichloromethane:Methanol:Ammonia soln. [89:10:1])  
**HPLC:** Shows 99.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.3	5.02	8.72
Found	61.88	4.98	8.68

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**Description:**

Selective melanin-concentrating hormone receptor 1 (MCH<sub>1</sub>) antagonist (IC<sub>50</sub> = 9.3 nM). Displays antiobesity and antidepressant-like effects in rats and mice. Orally active.

**Physical and Chemical Properties:**

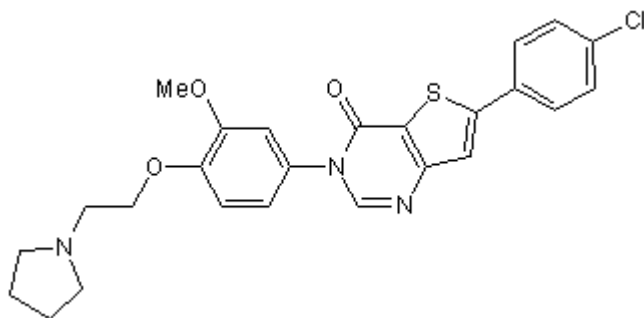
Batch Molecular Formula: C<sub>25</sub>H<sub>24</sub>ClN<sub>3</sub>O<sub>3</sub>S

Batch Molecular Weight: 481.99

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

1eq. HCl to 25 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:**

**Rivera et al** (2008) Melanin-concentrating hormone receptor 1 antagonists: a new perspective for the pharmacologic treatment of obesity. *Curr.Med.Chem.* **15** 1025. PMID: 18393860.

**Gehlert et al** (2009) Preclinical evaluation of melanin-concentrating hormone receptor 1 antagonism for the treatment of obesity and depression. *J.Pharmacol.Exp.Ther.* **329** 429. PMID: 19182070.

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