

## Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

**Product Name:** TC-C 14G

**Catalog No.:** 4345

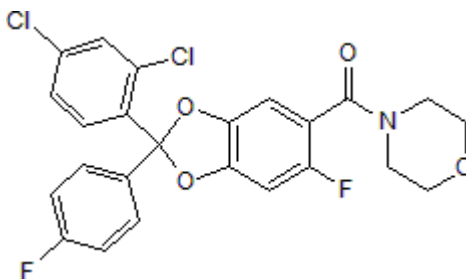
**Batch No.:** 1

**CAS Number:** 656804-72-7

**IUPAC Name:** [2-(2,4-Dichlorophenyl)-6-fluoro-2-(4-fluorophenyl)-1,3-benzodioxol-5-yl]-4-morpholinyl-methanone

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>24</sub>H<sub>17</sub>Cl<sub>2</sub>F<sub>2</sub>NO<sub>4</sub>  
**Batch Molecular Weight:** 492.3  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.11 (Ethyl acetate:Petroleum ether [9:1])  
**HPLC:** Shows 98.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	58.55	3.48	2.85
Found	58.3	3.54	2.69

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

## Product Information

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### Description:

Potent, high affinity CB<sub>1</sub> receptor inverse agonist (EC<sub>50</sub> = 11 nM in cAMP assay; K<sub>i</sub> = 4 nM). Demonstrates high efficacy in a hypothermia assay (ID<sub>50</sub> = 5 mg/kg) in vivo.

### Physical and Chemical Properties:

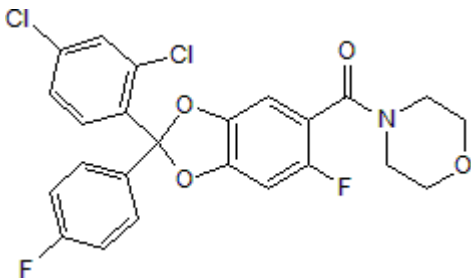
Batch Molecular Formula: C<sub>24</sub>H<sub>17</sub>Cl<sub>2</sub>F<sub>2</sub>NO<sub>4</sub>

Batch Molecular Weight: 492.3

Physical Appearance: White solid

**Minimum Purity:** >98%

### Batch Molecular Structure:



**Storage:** Store at +4°C

### Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 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:

**Alig et al** (2008) Benzodioxoles: novel cannabinoid-1 receptor inverse agonists for the treatment of obesity. *J.Med.Chem.* **51** 2115. PMID: 18335976.

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