

**Product Name:** COR 170

**Catalog No.:** 4756

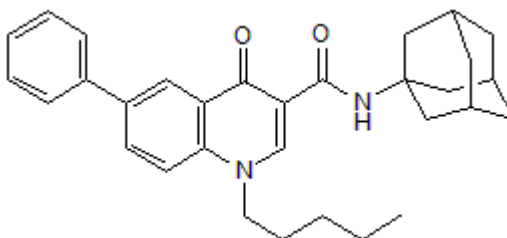
**Batch No.:** 1

**CAS Number:** 1048039-15-1

**IUPAC Name:** *N*-(Adamant-1-yl)-4-oxo-1-pentyl-6-phenyl-1,4-dihydroquinoline-3-carboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>31</sub>H<sub>36</sub>N<sub>2</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 468.63  
**Physical Appearance:** White solid  
**Solubility:** ethanol to 100 mM  
DMSO to 20 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.4 (Ethyl acetate:Petroleum ether [1:1])  
**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	79.45	7.74	5.98
Found	79.51	7.82	6.03

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

Tocris Bioscience is an R&D Systems company  
 USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373  
 www.RnDSYSTEMS.com

**R&D**  
SYSTEMS®

**Product Name:** COR 170

**Catalog No.:** 4756

**Batch No.:** 1

**CAS Number:** 1048039-15-1

**IUPAC Name:** *N*-(Adamant-1-yl)-4-oxo-1-pentyl-6-phenyl-1,4-dihydroquinoline-3-carboxamide

**Description:**

Selective inverse agonist of CB<sub>2</sub> receptors ( $K_i$  values are 3.8 and >10,000 nM for CB<sub>2</sub> and CB<sub>1</sub>, respectively).

**Physical and Chemical Properties:**

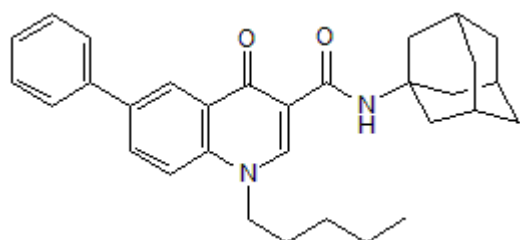
Batch Molecular Formula: C<sub>31</sub>H<sub>36</sub>N<sub>2</sub>O<sub>2</sub>

Batch Molecular Weight: 468.63

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

ethanol to 100 mM

DMSO to 20 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:**

**Pasquini et al** (2008) Investigations on the 4-quinolone-3-carboxylic acid motif. 2. Synthesis and structure-activity relationship of potent and selective cannabinoid-2 receptor agonists endowed with analgesic activity in vivo. *J.Med.Chem.* **51** 5075. PMID: 18680276.

**Contartese et al** (2012) A novel CB<sub>2</sub> agonist, COR167, potently protects rat brain cortical slices against OGD and reperfusion injury. *Pharmacol.Res.* **66** 555. PMID: 23036353.

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

Tocris Bioscience is an R&D Systems company  
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373  
www.RnDSystems.com

**R&D**  
SYSTEMS®