

Certificate of Analysis

Product Name: COR 170

Catalog No.: 4756

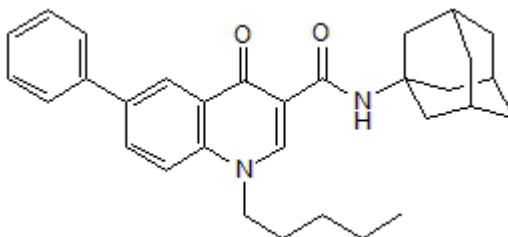
Batch No.: 1

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: C₃₁H₃₆N₂O₂
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_f = 0.4 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 100% purity
¹H 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

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Description:

Selective inverse agonist of CB₂ receptors (K_i values are 3.8 and >10,000 nM for CB₂ and CB₁, respectively).

Physical and Chemical Properties:

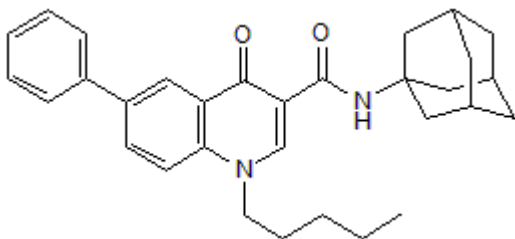
Batch Molecular Formula: C₃₁H₃₆N₂O₂

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 CB₂ agonist, COR167, potently protects rat brain cortical slices against OGD and reperfusion injury. *Pharmacol.Res.* **66** 555. PMID: 23036353.

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