

Product Name: SER 601

Catalog No.: 3556

Batch No.: 1

CAS Number: 1048038-90-9

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₃₈N₂O₂ · ¼H₂O

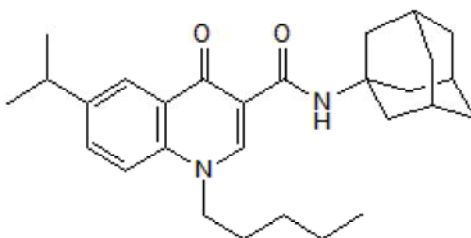
Batch Molecular Weight: 439.11

Physical Appearance: White solid

Solubility: DMSO to 25 mM
ethanol to 50 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.75 (Ethyl acetate:Petroleum ether [1:1])

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	76.59	8.84	6.38
Found	76.77	8.81	6.52

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

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Description:

Potent and selective CB₂ receptor agonist (K_i values are 6.3 nM and 1.2 μM for CB₂ and CB₁ receptors respectively). Displays analgesic activity in the formalin test in mice.

Physical and Chemical Properties:

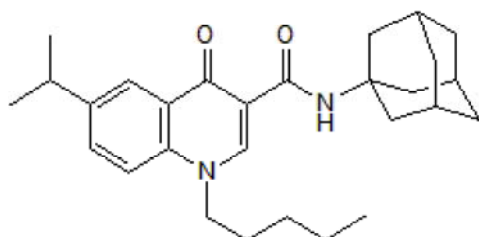
Batch Molecular Formula: C₂₈H₃₈N₂O₂ · ¼H₂O

Batch Molecular Weight: 439.11

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 25 mM

ethanol 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:

Contartese (2012) A novel CB₂ agonist, COR167, potently protects rat brain cortical slices against OGD and reperfusion injury. *Pharmacol.Res.* **66** 555. PMID: 23036353.

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.

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