

**Product Name:** JTE 907

**Catalog No.:** 2479

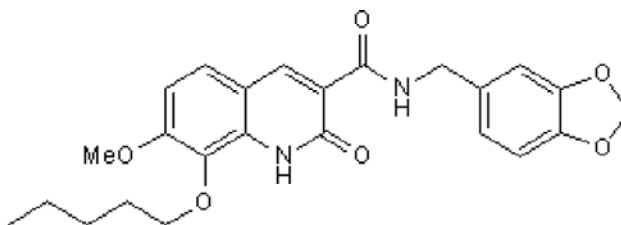
**Batch No.:** 1

CAS Number: 282089-49-0

IUPAC Name: *N*-(1,3-Benzodioxol-5-ylmethyl)-1,2-dihydro-7-methoxy-2-oxo-8-(pentyloxy)-3-quinolinecarboxamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>24</sub>H<sub>26</sub>N<sub>2</sub>O<sub>6</sub>  
**Batch Molecular Weight:** 438.48  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 10 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.39 (Ethyl acetate:Petroleum ether [1:1])  
**HPLC:** Shows >99.1% purity  
<sup>1</sup>H NMR: Consistent with structure  
 Mass Spectrum: Consistent with structure  
 Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.74	5.98	6.39
Found	65.71	5.98	6.39

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

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**Description:**

Highly selective cannabinoid CB<sub>2</sub> receptor inverse agonist. Binds with high affinity to rat, mouse and human CB<sub>2</sub> receptors (K<sub>i</sub> values are 0.38, 1.55 and 35.9 nM respectively). Produces anti-inflammatory effects in vivo.

**Physical and Chemical Properties:**

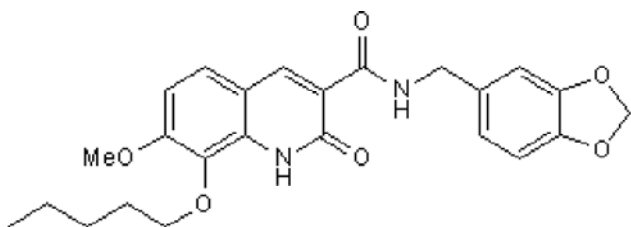
Batch Molecular Formula: C<sub>24</sub>H<sub>26</sub>N<sub>2</sub>O<sub>6</sub>

Batch Molecular Weight: 438.48

Physical Appearance: Off-white solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**Maekawa *et al*** (2006) The cannabinoid CB<sub>2</sub> receptor inverse agonist JTE-907 suppresses spontaneous itch-associated responses of NC mice, a model of atopic dermatitis. *Eur.J.Pharmacol.* **542** 179. PMID: 16824511.

**Ueda *et al*** (2005) Involvement of cannabinoid CB<sub>2</sub> receptor-mediated response and efficacy of cannabinoid CB<sub>2</sub> receptor inverse agonist, JTE 907, in cutaneous inflammation in mice. *Eur.J.Pharmacol.* **520** 164. PMID: 16153638.

**Iwamura *et al*** (2001) In vitro and in vivo pharmacological characterization of JTE-907, a novel selective ligand for cannabinoid CB<sub>2</sub> receptor. *J.Pharmacol.Exp.Ther.* **296** 420. PMID: 11160626.

**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 10 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.

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