

Product Name: MDA 19

Catalog No.: 4205

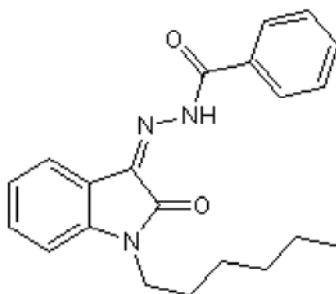
Batch No.: 1

CAS Number: 1048973-47-2

IUPAC Name: *N'*-[(3*Z*)-1-Hexyl-2-oxo-1,2-dihydro-3*H*-indol-3-ylidene]benzohydrazide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₃N₃O₂
Batch Molecular Weight: 349.43
Physical Appearance: Yellow solid
Solubility: DMSO to 50 mM
 ethanol to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.78 (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	72.18	6.63	12.03
Found	72.15	6.82	11.89

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

bio-techne.com

info@bio-techne.com
techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors
Tel: +1 612 379 2956

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Description:

CB₂ receptor agonist. Displays 4-fold higher affinity for the human CB₂ receptor than the human CB₁ receptor (K_i values are 43.3 and 162.4 nM respectively); shows 70-fold affinity for the rat CB₂ receptor over the rat CB₁ receptor (K_i values are 16.3 and 1130 nM respectively). Attenuates tactile allodynia in a rat model; does not affect rat locomotor activity.

Physical and Chemical Properties:

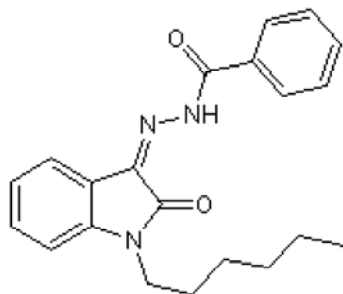
Batch Molecular Formula: C₂₁H₂₃N₃O₂

Batch Molecular Weight: 349.43

Physical Appearance: Yellow solid

Minimum Purity: ≥99%

Batch Molecular Structure:



References:

Xu et al (2010) Pharmacological characterization of a novel cannabinoid ligand, MDA19, for treatment of neuropathic pain. *Anesth. Analg.* **111** 99. PMID: 20522703.

Diaz et al (2008) Design and synthesis of a novel series of *N*-alkyl isatin acylhydrazone derivatives that act as selective cannabinoid receptor 2 agonists for the treatment of neuropathic pain. *J. Med. Chem.* **51** 4932. PMID: 18666769.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 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.

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