

**Product Name:** NF 1819

**Catalog No.:** 5956

**Batch No.:** 1

CAS Number: 1881244-28-5

IUPAC Name: (3*R*,4*S*)-*rel*-4-(1,3-Benzodioxol-5-yl)-3-(4-fluorophenyl)-1-[1-(1*H*)-1,2,4-triazol-1-carbonyl]-4-piperidinyl]-2-azetidinone

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>24</sub>H<sub>22</sub>FN<sub>5</sub>O<sub>4</sub>·¼H<sub>2</sub>O

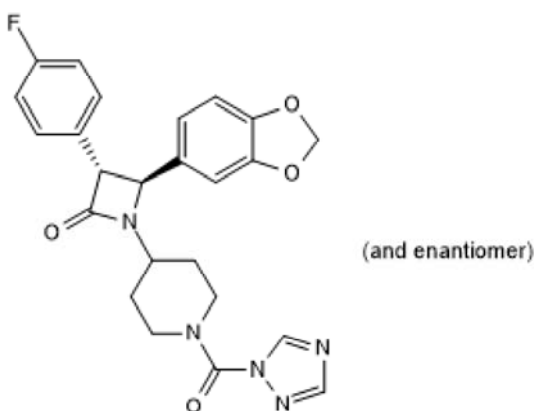
**Batch Molecular Weight:** 467.96

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM  
ethanol to 50 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.21 (Diethyl ether)

**HPLC:** Shows 98.2% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	61.6	4.85	14.97
Found	61.76	4.72	14.99

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

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**Description:**

NF 1819 is a potent and selective irreversible MAGL inhibitor (IC<sub>50</sub> values are 0.25 and 7.4 nM at rMAGL and hMAGL, respectively). Exhibits 389-fold selectivity over hFAAH and exhibits minimal binding at CB receptors (IC<sub>50</sub> > 10 μM). Alleviates symptoms in a MS in vivo model. Exhibits analgesic effects in an acute inflammatory pain model in vivo. Ameliorates neuropathic hypersensitivity induced by oxaliplatin (Cat. No. 2623). Displays high membrane permeability and brain penetrant.

**Physical and Chemical Properties:**

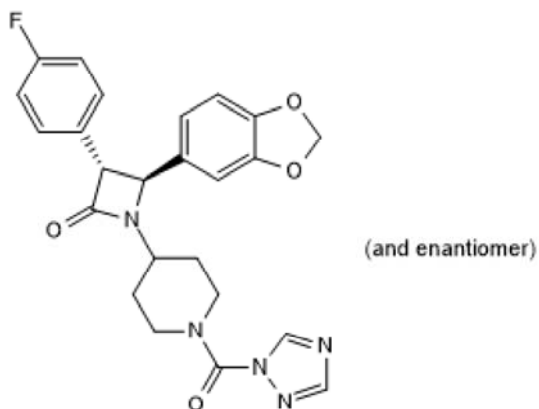
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Batch Molecular Weight: 467.96

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Brindisi et al** (20106) Development and pharmacological characterization of selective blockers of 2-arachidonoyl glycerol degradation with efficacy in rodent models of multiple sclerosis and pain. *J.Med.Chem.* **59** 2612. PMID: 26888301.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 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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