# TOCRIS a biotechne brand

# **Certificate of Analysis**

## www.tocris.com

Product Name: URB 597

Catalog No.: 4612 Batch No.: 1

CAS Number: IUPAC Name: 546141-08-6

Cyclohexylcarbamic acid 3'-(Aminocarbonyl)-[1,1'-biphenyl]-3-yl ester

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure:  $C_{20}H_{22}N_2O_3$ .<sup>1/4</sup>H<sub>2</sub>O 342.9 White solid DMSO to 50 mM Store at +4°C

 $H_2N$ Ö ö

## 2. ANALYTICAL DATA

TLC: HPLC: <sup>1</sup>H NMR: Mass Spectrum: Microanalysis:  $R_{f} = 0.25 \text{ (Chloroform:Methanol [95:5])}$ Shows >99.9% purity
Consistent with structure
Consistent with structure
Carbon Hydrogen Nitrogen
Theoretical 70.05 6.61 8.17
Found 70.11 6.48 8.22

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

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## Print Date: Jan 14th 2016

Batch No.: 1

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#### Product Name: URB 597

CAS Number: IUPAC Name:

Cyclohexylcarbamic acid 3'-(Aminocarbonyl)-[1,1'-biphenyl]-3-yl ester

### **Description:**

Potent and selective fatty acid amide hydrolase (FAAH) inhibitor ( $IC_{50}$  values are 3 and 5 nM in human liver and rat brain, respectively). Exhibits no significant inhibitory activity against a variety of receptors, ion channels and enzymes, including human cannabinoid receptors and rat monoacylglycerol lipase. Displays antiallodynic and antihyperalgesic activity in an inflammatory pain model.

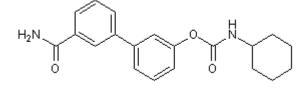
546141-08-6

#### **Physical and Chemical Properties:**

Batch Molecular Formula:  $C_{20}H_{22}N_2O_3$ . <sup>1</sup>/<sub>4</sub> $H_2O$ Batch Molecular Weight: 342.9 Physical Appearance: White solid

#### Minimum Purity: >99%

### **Batch Molecular Structure:**



#### **Storage:** Store at +4°C

Solubility & Usage Info: DMSO 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).

Catalog No.: 4612

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:**

Hohmann et al (2005) An endocannabinoid mechanism for stress-induced analgesia. Nature 435 1108. PMID: 15973410.

Piomelli et al (2006) Pharmacological profile of the selective FAAH inhibitor KDS-4103 (URB597). CNS Drug Rev. 12 21. PMID: 16834756.

Jayamanne et al (2006) Actions of the FAAH inhibitor URB597 in neuropathic and inflammatory chronic pain models. Br.J.Pharmacol. 147 281. PMID: 16331291.

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