

**Product Name:** UK 5099

**Catalog No.:** 4186

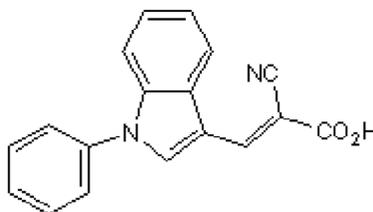
**Batch No.:** 2

CAS Number: 56396-35-1

IUPAC Name: 2-Cyano-3-(1-phenyl-1*H*-indol-3-yl)-2-propenoic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>18</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>.  
**Batch Molecular Weight:** 288.3  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.7 % purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	74.99	4.2	9.72
Found	74.75	4.19	9.59

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

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**2**

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**Description:**

UK 5099 is an inhibitor of plasma membrane monocarboxylate transporters (MCTs) and the mitochondrial pyruvate carrier (MPC).

**Physical and Chemical Properties:**

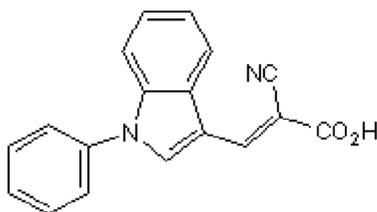
Batch Molecular Formula: C<sub>18</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>.

Batch Molecular Weight: 288.3

Physical Appearance: Yellow solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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.

**Licensing Information:**

Sold for research purposes under agreement from Pfizer Inc.

**References:**

**Hinoi et al** (2006) A molecular mechanism of pyruvate protection against cytotoxicity of reactive oxygen species in osteoblasts. *Mol.Pharmacol.* **70** 925. PMID: 16766717.

**Hildyard et al** (2003) Identification of the mitochondrial pyruvate carrier in *Saccharomyces cerevisiae*. *Biochem.J.* **374** 607. PMID: 12887330.

**Wiemer et al** (1995) The inhibition of pyruvate transport across the plasma membrane of the bloodstream form of *Trypanosoma brucei* and its metabolic implications. *Biochem.J.* **312** 479. PMID: 8526859.

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