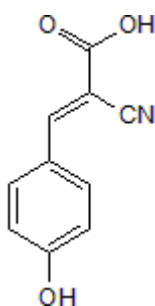


**Product Name:** CHC  
**CAS Number:** 28166-41-8  
**IUPAC Name:** 2-Cyano-3-(4-hydroxyphenyl)-2-propenoic acid

**Catalog No.:** 5029      **Batch No.:** 1

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>10</sub>H<sub>7</sub>NO<sub>3</sub>  
**Batch Molecular Weight:** 189.17  
**Physical Appearance:** yellow solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 50 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	63.49	3.73	7.4
Found	63.18	3.75	7.45

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

**Product Name:** CHC

**Catalog No.:** 5029

**Batch No.:** 1

**CAS Number:** 28166-41-8

**IUPAC Name:** 2-Cyano-3-(4-hydroxyphenyl)-2-propenoic acid

**Description:**

Monocarboxylic acid transport (MCT) inhibitor. Exhibits antitumoral and antiangiogenic activity in gliomas; decreases glycolytic metabolism, migration, and invasion in U251 cells.

**Physical and Chemical Properties:**

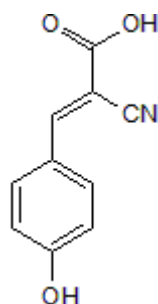
Batch Molecular Formula: C<sub>10</sub>H<sub>7</sub>NO<sub>3</sub>

Batch Molecular Weight: 189.17

Physical Appearance: yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°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.

**References:**

**Dimmer *et al*** (2000) The low-affinity monocarboxylate transporter MCT4 is adapted to the export of lactate in highly glycolytic cells. *Biochem.J.* **350** 219. PMID: 10926847.

**Fang *et al*** (2006) The H<sup>+</sup>-linked monocarboxylate transporter (MCT1/SLC16A1): a potential therapeutic target for high-risk neuroblastoma. *Mol.Pharmacol.* **70** 2108. PMID: 17000864.

**Miranda-Gonçalves *et al*** (2013) Monocarboxylate transporters (MCTs) in gliomas: expression and exploitation as therapeutic targets. *Neuro.Oncol.* **15** 172. PMID: 23258846.

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