

## PRODUCT: $\alpha$ -Cyano-4-hydroxycinnamic acid

### RELATED PRODUCTS:

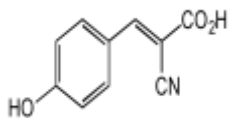
Phloretin (**9625**)UK5099 (**B1952**)

ALTERNATE NAME:  $\alpha$ -CCA; 4-HCCA; CHCA; NSC173138; 4-CIN

CATALOG #: B2162-500, 1000

AMOUNT: 500 mg, 1 g

### STRUCTURE:



MOLECULAR FORMULA: C<sub>10</sub>H<sub>7</sub>NO<sub>3</sub>

MOLECULAR WEIGHT: 189.17

CAS NUMBER: 28166-41-8

APPEARANCE: Yellow solid

SOLUBILITY: DMSO (10 mg/ml)

PURITY:  $\geq$ 98% by HPLC

STORAGE: Store at -20 °C. Protect from light and light

DESCRIPTION:  $\alpha$ -Cyano-4-hydroxycinnamate (4-CIN) is a monocarboxylate transporter (MCT) inhibitor. Displays antitumor and antiangiogenic activity in gliomas *in vivo*; decreases glycolytic metabolism, migration, and invasion in U251 cells. Also blocks lactate efflux from glioma cells and sensitizes cells to irradiation.

REFERENCES: Miramda-Goncalves, V., *et al.* (2013). *Neuro Oncol.* **15**, 172-188.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

USAGE: **FOR RESEARCH USE ONLY! Not to be used in humans**