

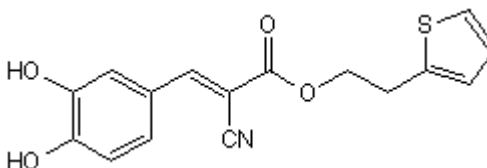
Certificate of Analysis

Product Name: 2-TEDC
CAS Number: 132465-10-2
IUPAC Name: 2-(1-Thienyl)ethyl 3,4-dihydroxybenzylidenecyanoacetate

Catalog No.: 0645 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₃NO₄S
Batch Molecular Weight: 315.34
Physical Appearance: Yellow crystalline solid
Solubility: DMSO to 100 mM
 ethanol to 25 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 145 - 146°C
HPLC: Shows >99.2% purity
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.94	4.16	4.44
Found	60.9	4.13	4.35

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

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Description:

Potent inhibitor of 5-, 12-, and 15-lipoxygenase (IC₅₀ values are 0.09, 0.013 and 0.5 μM respectively).

Physical and Chemical Properties:

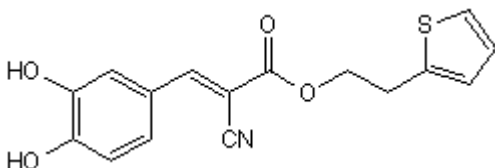
Batch Molecular Formula: C₁₆H₁₃NO₄S

Batch Molecular Weight: 315.34

Physical Appearance: Yellow crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 25 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:

Cho et al (1991) Novel caffeic acid derivatives - extremely potent inhibitors of 12-lipoxygenase. *J.Med.Chem.* **34** 1503. PMID: 2016727.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956