

Certificate of Analysis

www.tocris.com

Product Name: Crotonic Acid

Catalog No.: 6660

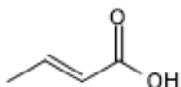
Batch No.: 1

CAS Number: 107-93-7

IUPAC Name: (2E)-2-Butenoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄H₆O₂
Batch Molecular Weight: 86.09
Physical Appearance: White solid
Solubility: water to 100 mM
DMSO to 100 mM
ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.81	7.02	
Found	55.81	7.07	

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

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Catalog No.: 6660

Batch No.: 1

CAS Number: 107-93-7

IUPAC Name: (2E)-2-Butenoic acid

Description:

Induces histone modifications in chemically induced pluripotent stem cells (CiPSCs). Activates gene expression, facilitates telomere maintenance and increases telomere length, and enhances reprogramming of MEFs to iPSCs using a small molecule cocktail including valproic acid (Cat. No. 2815), CHIR 99021 (Cat. No. 4423), tranylcypromine (Cat. No. 3852), forskolin (Cat. No. 1099), AM 580 (Cat. No. 0760), EPZ 004777 (Cat. No. 5567), SGC 0946 (Cat. No. 4541) and PD 0325901 (Cat. No. 4192). Please see product datasheet on www.tocris.com for full description.

Physical and Chemical Properties:

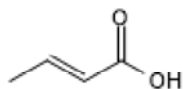
Batch Molecular Formula: C₄H₆O₂

Batch Molecular Weight: 86.09

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Fu *et al* (2018) Dynamics of telomere rejuvenation during chemical induction to pluripotent stem cells. *Stem Cell Reports* **11** 70. PMID: 29861168.

Storage: Store at RT

Solubility & Usage Info:

water to 100 mM
DMSO to 100 mM
ethanol 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. 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.

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