

Certificate of Analysis

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Product Name: Sorbic acid

Catalog No.: 7119

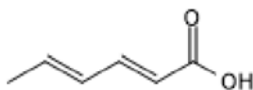
Batch No.: 1

CAS Number: 110-44-1

IUPAC Name: (2E,4E)-2,4-Hexenoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆H₈O₂
Batch Molecular Weight: 112.13
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.27	7.19	
Found	63.99	7.19	

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

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Product Name: Sorbic acid

Catalog No.: 7119

Batch No.: 1

CAS Number: 110-44-1

IUPAC Name: (2E,4E)-2,4-Hexenoic acid

Description:

Activator of hFFA2-DREADDs. Inhibits forskolin-induced cAMP production ($IC_{50} \sim 1 \mu M$) and promotes accumulation of inositol monophosphates ($IC_{50} > 1 \mu M$) in cells expressing hFFA2-DREADD. Promotes the release of GLP-1 from colonic crypts derived from hFFA2-DREADD-expressing mice.

Physical and Chemical Properties:

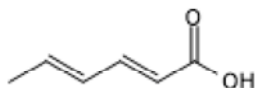
Batch Molecular Formula: C₆H₈O₂

Batch Molecular Weight: 112.13

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

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.

References:

Bolognini et al (2019) Chemogenetics defines receptor-mediated functions of short chain free fatty acids. *Nat.Chem.Biol.* **15** 489. PMID: 30992568.

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