

Certificate of Analysis

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Product Name: Rosmarinic acid

Catalog No.: 0630

Batch No.: 3

CAS Number: 20283-92-5

IUPAC Name: [*R*-(+)]- α -[[3-(3,4-Dihydroxyphenyl)-1-oxo-2-propenyl]oxy]-3,4-dihydroxybenzenepropanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{18}H_{16}O_8 \cdot \frac{1}{2}H_2O$

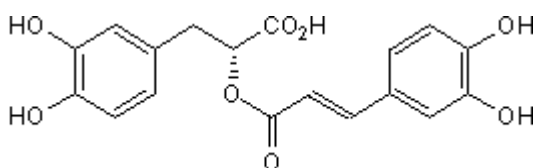
Batch Molecular Weight: 369.33

Physical Appearance: Beige solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.54	4.64	
Found	58.38	4.73	

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

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Product Information

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Description:

Anti-inflammatory, cytostatic and antiviral. Also displays agonist activity at GPR35.

Physical and Chemical Properties:

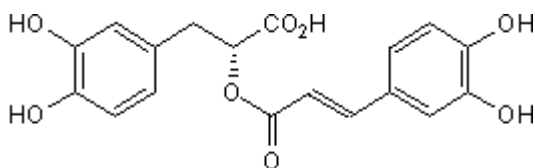
Batch Molecular Formula: C₁₈H₁₆O₈ · ½H₂O

Batch Molecular Weight: 369.33

Physical Appearance: Beige solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water 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:

Bult *et al* (1985) Modification of endotoxin-induced haemodynamic and haematological changes in the rabbit by methylprednisolone, F (ab')₂ fragments and rosmarinic acid. *Br.J.Pharmacol.* **84** 317. PMID: 3838489.

Rampart *et al* (1986) Complement-dependent stimulation of prostacyclin biosynthesis: inhibition by rosmarinic acid. *Biochem.Pharmacol.* **35** 1397. PMID: 3516156.

Van Kessel *et al* (1986) Rosmarinic acid inhibits external oxidative effects of human polymorphonuclear granulocytes. *Agents Actions.* **17** 375. PMID: 3962787.

Sahu *et al* (1999) Inhibition of complement by covalent attachment of rosmarinic acid to activated C3b. *Biochem.Pharmacol.* **57** 1439. PMID: 10353266.

Deng *et al* (2012) Multiple tyrosine metabolites are GPR35 agonists. *Sci.Rep.* **2** 373. PMID: 22523636.

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