



Certificate of Analysis

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Product Name: Quercetin Catalog No.: 1125 Batch No.: 1

CAS Number: 117-39-5 EC Number: 204-187-1

IUPAC Name: 2-(3,4-Dihydroxyphenyl)-3,5,7-trihydroxy-4*H*-1-benzopyran-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.4$ (Dichloromethane:Methanol [10:1])

Melting Point:

HPLC:

Shows 98.3% purity

HNMR:

Consistent with structure

Mass Spectrum:

Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 53.26 4.17 0 Found 53.19 3.92 0



Product Information

Print Date: Apr 28th 2015

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Description:

Antitumor agent; induces apoptosis and inhibits synthesis of heat shock proteins. Inhibits many enzyme systems including tyrosine protein kinase, phospholipase A₂, phosphodiesterases, mitochondrial ATPase, PI 3-kinase and protein kinase C. Can also activate Ca²⁺ and K+ channels and behaves as an agonist at estrogen (GPR30) receptors.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{15}H_{10}O_7$ Batch Molecular Weight: 302.24 Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:

DMSO 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:

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Cermak et al (2002) The flavonol quercetin activates basolateral K+ channels in rat distal colon epithelium. Br.J.Pharmacol. 135 1183. PMID: 11877325.

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