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Print Date: Jan 13th 2016

Certificate of Analysis

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Product Name: **Daidzein** **Catalog No.: 1417** **Batch No.: 2**

CAS Number: 486-66-8 EC Number: 207-635-4

IUPAC Name: 7-Hydroxy-3-(4-hydroxyphenyl)-4*H*-1-benzopyran-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{10}O_4$

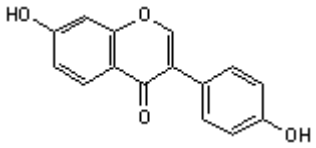
Batch Molecular Weight: 254.24

Physical Appearance: White solid

Solubility: DMSO to 100 mM
1eq. NaOH to 20 mM with gentle warming

Storage: Desiccate at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.27 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])

Melting Point: Between 305 - 315°C(dec)

HPLC: Shows 100% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.86	3.96	
Found	70.58	4.02	

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Description:

Analog of the phytoestrogen genistein (Cat. No. 1110). Blocks G_1 phase cell cycle progression. Agonist at estrogen receptors.

Physical and Chemical Properties:

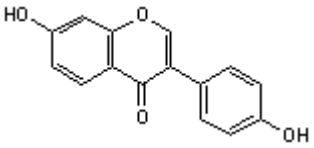
Batch Molecular Formula: $C_{15}H_{10}O_4$

Batch Molecular Weight: 254.24

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

DMSO to 100 mM
1eq. NaOH to 20 mM with gentle warming

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:

Jing *et al* (1993) Differentiation of promyelocytic leukemia cells HL-60 induced by daidzein in vitro and in vivo. Anticancer Res. ***13*** 1049. PMID: 8352524.

Higashi and Ogawara (1994) Daidzein inhibits insulin- or insulin-like growth factor-1-mediated signaling in cell cycle progression of Swiss 3T3 cells. Biochim.Biophys.Acta ***1221*** 29. PMID: 8130274.

Casanova *et al* (1999) Development effects of dietary phytoestrogens in Sprague Dawley rats and interactions of genistein and daidzein with rat estrogen receptors α and β *in vitro*. Toxicol.Sci. ***51*** 236. PMID: 10543025.