

Certificate of Analysis

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Product Name: Galangin

Catalog No.: 6494

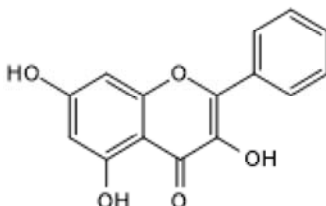
Batch No.: 1

CAS Number: 548-83-4

IUPAC Name: 3,5,7-Trihydroxy-2-phenyl-4*H*-1-benzopyran-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₀O₅.H₂O
Batch Molecular Weight: 288.26
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
ethanol to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.5	4.2	
Found	62.36	4.17	

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

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CAS Number: 548-83-4

IUPAC Name: 3,5,7-Trihydroxy-2-phenyl-4H-1-benzopyran-4-one

Description:

TRPC5 inhibitor. Inhibits Ca²⁺ entry into TRPC5 expressing cells. Inhibits LPS-induced expression of TNF α , IL-6, IL-1 β , COX2 and iNOS, in vitro. Attenuates microglial activation, loss of dopaminergic neurons and motor dysfunction in a LPS-induced rat model of Parkinson's disease. Also inhibits proliferation in breast cancer cell lines. Induces autophagy. Also displays antiviral activity against HSV-1, coxsackie B virus type 1, adenovirus type 31 and reovirus.

Physical and Chemical Properties:

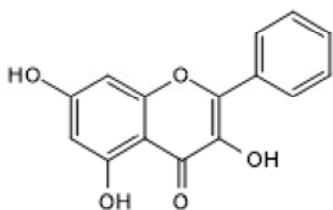
Batch Molecular Formula: C₁₅H₁₀O₅.H₂O

Batch Molecular Weight: 288.26

Physical Appearance: Yellow solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



References:

Chen *et al* (2017) Galangin reduces the loss of DArgic neurons in an LPS-evoked model of Parkinson's disease in rats. *Int.J.Mol.Sci.* **19**. PMID: 29267220.

Naylor *et al* (2016) Natural and synthetic flavonoid modulation of TRPC5 channels. *Br.J.Pharmacol.* **173** 562. PMID: 26565375.

Wen *et al* (2012) Galangin induces autophagy through upregulation of p53 in HepG2 cells. *Pharmacology.* **89** 247. PMID: 22507894.

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 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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