

Product Name: Xanthohumol

Catalog No.: 4686

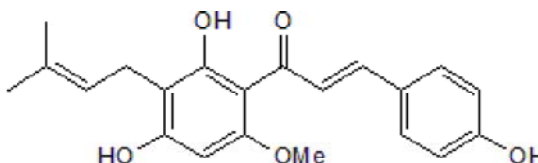
Batch No.: 2

CAS Number: 6754-58-1

IUPAC Name: (2E)-1-[2,4-Dihydroxy-6-methoxy-3-(3-methyl-2-buten-1-yl)phenyl]-3-(4-hydroxyphenyl)-2-propen-1-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₂O₅·¼H₂O
Batch Molecular Weight: 358.9
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.28	6.32	
Found	70.62	6.3	

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

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Description:

p97 ATPase (VCP) inhibitor. Binds to the N domain of p97, impairing autophagosome function and maturation. Inhibits proliferation and induces apoptosis in a variety of human cancer cell lines. Also inhibits DGAT in rat liver microsomes (IC₅₀ = 50.3 μM).

Physical and Chemical Properties:

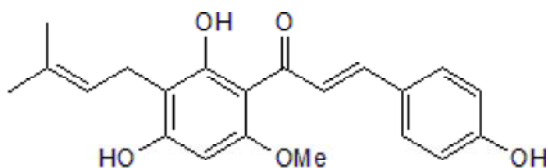
Batch Molecular Formula: C₂₁H₂₂O₅·¼H₂O

Batch Molecular Weight: 358.9

Physical Appearance: Yellow 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:

Sasazawa et al (2012) Xanthohumol impairs autophagosome maturation through direct inhibition of valosin-containing protein. *ACS Chem.Biol.* **7** 892. PMID: 22360440.

Inokoshi et al (2009) Expression of two human acyl-CoA:diacylglycerol acyltransferase isozymes in yeast and selectivity of microbial inhibitors toward the isozymes. *J.Antibiot.(Tokyo)* **62** 51. PMID: 19132064.

Tabata et al (1997) Xanthohumols, diacylglycerol acyltransferase inhibitors, from *Humulus lupulus*. *Phytochemistry* **46** 683. PMID: 9366096.

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