

Product Name: Xanthohumol

Catalog No.: 4686

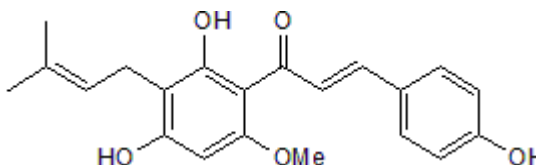
Batch No.: 1

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
Batch Molecular Weight: 354.4
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 167 - 170°C
HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.17	6.26	
Found	70.99	6.17	

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

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Description:

Valosin-containing protein (VCP) inhibitor. Binds to the N domain of VCP, suppressing function and impairing autophagosome maturation. Inhibits growth of a wide variety of human cancer cell lines by inhibiting proliferation and inducing apoptosis.

Physical and Chemical Properties:

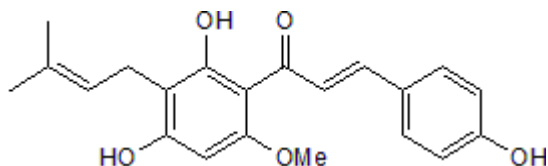
Batch Molecular Formula: C₂₁H₂₂O₅

Batch Molecular Weight: 354.4

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.

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