

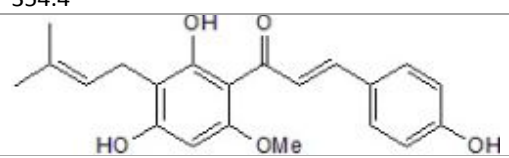
Xanthohumol

SIH-370-50MG

Overview

| | |
|---------------------|----------------------------|
| Product Name | Xanthohumol Small Molecule |
| Unit Size | 50mg |
| Description | Autophagy inhibitor |
| Purity | ≥98% (TLC); NMR (Conforms) |

Technical Data

| | |
|-----------------------------|---|
| Alternative Name(s) | (2E)-1-[2,4-Dihydroxy-6-methoxy-3-(3-methyl-2-buten-1-yl)phenyl]-3-(4-hydroxyphenyl)-2-propen-1-one |
| Formula | C ₂₁ H ₂₂ O ₅ |
| CAS# | 6754-58-1 |
| Molecular Weight | 354.4 |
| Chemical Structure |  |
| Solubility | May be dissolved in DMSO (35mg/ml) or Ethanol (35mg/ml). |
| Source | Synthetic |
| Appearance | Yellow solid |
| Storage Conditions | -20°C; 1 year+ |
| Shipping Temperature | Shipped Ambient |
| SMILES | <chem>CC(=CCC1=C(C(=C(C=C1O)OC)C(=O)/C=C/C2=CC=C(C=C2)O)O)C</chem> |
| Research Area(s) | Autophagy |

Biological Description

| | |
|--------------------------|---|
| Function | Xanthohumol is a valosin-containing protein (VCP) inhibitor which binds to the N-domain of VCP, suppressing function and impairing autophagosome maturation (1). It also inhibits growth of a wide variety of human cancer cell lines by inhibiting proliferation and inducing apoptosis (2). |
| | 1. Sasazawa Y., et al. (2012) ACS Chem Biol. 7(5): 892-900. 2. Vene R., et al. (2012) Mol. Med. 18: 1292. |
| Product Citations | PubMed ID: N/A |

Material Safety Data Sheet

Xanthohumol SIH-370-50MG

This product is for *in vitro* research use only and is not intended for use in humans or animals

The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Regulatory Information

Classification: Toxic

Safety Phrases:

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Hazard Phrases:

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

Precautionary Phrases:

P273 Avoid release to the environment.

P280 Wear protective gloves.

Physical Data

This product consists of powder, shipped at ambient temperatures. The physical properties of this product have not been investigated thoroughly. CAS Number: 6754-58-1

Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.