

Product Name: Mycophenolic acid

Catalog No.: 1505

Batch No.: 2

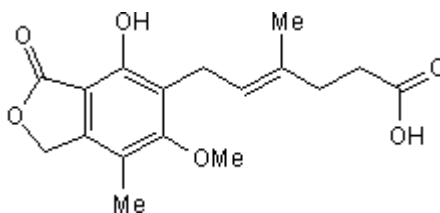
CAS Number: 24280-93-1

EC Number: 246-119-3

IUPAC Name: 6-(1,3-Dihydro-4-hydroxy-6-methoxy-7-methyl-3-oxo-5-isobenzofuranyl)-4-methyl-4-hexenoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₀O₆
Batch Molecular Weight: 320.34
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 63.74 | 6.29 | |
| Found | 63.99 | 6.42 | |

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

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Description:

Immunosuppressive agent with antiviral and antitumor effects in vitro and in vivo. Potently inhibits inosine monophosphate dehydrogenase, thus inhibiting de novo GTP synthesis leading to decreased RNA and DNA synthesis. Reversibly inhibits proliferation of T and B lymphocytes and antibody formation.

Physical and Chemical Properties:

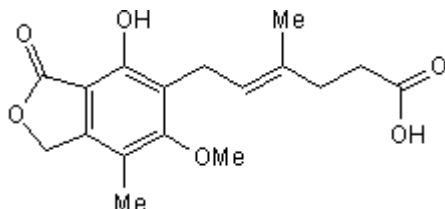
Batch Molecular Formula: C₁₇H₂₀O₆

Batch Molecular Weight: 320.34

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO 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:

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Allison et al (1993) Mechanisms of action of mycophenolic acid. *Ann.N.Y.Acad.Sci.* **696** 63. PMID: 7906496.

Senda et al (1995) Mycophenolic acid, an inhibitor of IMP dehydrogenase that is also an immunosuppressive agent, suppresses the cytokine-induced nitric oxide production in mouse and rat vascular endothelial cells. *Transplantation* **60** 1143. PMID: 7482723.

Zadina et al (1997) A potent and selective endogenous agonist for the μ-opiate receptor. *Nature* **386** 499. PMID: 9087409.

Chapman et al (1997) Distinct inhibitory effects of spinal endomorphin-1 and endomorphin-2 on evoked dorsal horn neuronal responses in the rat. *Br.J.Pharmacol.* **122** 1537. PMID: 9422796.

Goldberg et al (1998) Pharmacological characterization of endomorphin-1 and endomorphin-2 in mouse brain. *J.Pharmacol.Exp.Ther.* **286** 1007. PMID: 9694962.

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