Product Name: Mycophenolic acid
Catalog No.: 1505
Batch No.: 3
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: \( \text{C}_{17}\text{H}_{20}\text{O}_{6} \)
Batch Molecular Weight: 320.34
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 98.4% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis: Carbon Hydrogen Nitrogen

<table>
<thead>
<tr>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>63.74</td>
<td>63.84</td>
</tr>
<tr>
<td>6.29</td>
<td>6.18</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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**Catalog No.:** 1505  
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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:** C_{17}H_{20}O_{6}
- **Batch Molecular Weight:** 320.34
- **Physical Appearance:** White solid
- **Minimum Purity:** >98%

**Batch Molecular Structure:**

![Mycophenolic acid 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:***


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.
