

Product Name: Mycophenolate mofetil

Catalog No.: 4102

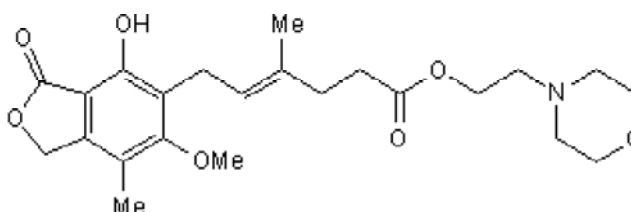
Batch No.: 2

CAS Number: 128794-94-5

IUPAC Name: 6-(1,3-Dihydro-4-hydroxy-6-methoxy-7-methyl-3-oxo-5-isobenzofuranyl)-4-methyl-4-hexenoic acid 2-(4-morpholinyl) ethyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₃₁NO₇
Batch Molecular Weight: 433.49
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 10 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.73	7.21	3.23
Found	63.65	7.15	3.42

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

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Description:

Immunosuppressant prodrug of mycophenolic acid (MPA) (Cat. No. 1505). Hydrolyzed by esterases to release MPA, a reversible inhibitor of inosine monophosphate dehydrogenase (IMPDH). Used to prevent organ rejection after transplantation. Displays inhibitory activity of lymphocyte functions. Inhibits type 1 collagen expression, enhances MMP-1 expression, and reduces α -smooth muscle actin gene expression.

Physical and Chemical Properties:

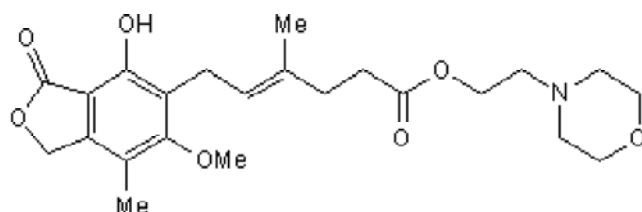
Batch Molecular Formula: C₂₃H₃₁NO₇

Batch Molecular Weight: 433.49

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 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:

Roos et al (2007) In vitro evidence for a direct antifibrotic role of the immunosuppressive drug mycophen. mofetil. *J.Pharm.Exp.Ther.* **321** 583.

Allison and Eugui (1996) Purine metabolism and immunosuppressive effects of mycophen. mofetil (MMF). *Clin.Transplant.* **10** 77. PMID: 8680053.

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