

## DATASHEET

### Mycophenolic acid

## Product overview

<b>Name</b>	Mycophenolic acid
<b>Cat No</b>	HB3987
<b>Purity</b>	>98%
<b>Description</b>	Inosine monophosphatase dehydrogenase inhibitor

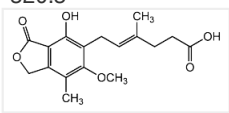
## Biological Data

<b>Biological description</b>	Antibiotic which is a potent, reversible inosine monophosphatase dehydrogenase inhibitor. It is 5-fold more potent at type II compared to type I isoforms.  It is also an iNOS inhibitor and additionally inhibits RNA and DNA synthesis. It shows immunosuppressive, antiviral, antifungal and antitumor properties and induces apoptosis and necrosis.  Recently investigated as part of COVID-19 compound repurposing.
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## Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in DMSO (100 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

## Chemical Data

<b>Chemical name</b>	6-(1,3-Dihydro-4-hydroxy-6-methoxy-7-methyl-3-oxo-5-isobenzofuranyl)-4-methyl-4-hexenoic acid
<b>Molecular Weight</b>	320.3
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>17</sub> H <sub>20</sub> O <sub>6</sub>
<b>CAS Number</b>	24280-93-1
<b>PubChem identifier</b>	446541
<b>SMILES</b>	<chem>COC1=C(C)C2=C(C(=O)OC2)C(O)=C1C/C=C(/C)CCC(O)=O</chem>
<b>InChi</b>	InChI=1S/C17H20O6/c1-9(5-7-13(18)19)4-6-11-15(20)14-12(8-23-17(14)21)10(2)16(11)22-3/h4,20 H,5-8H2,1-3H3,(H,18,19)/b9-4+
<b>InChiKey</b>	HPNSFSBZBAHARI-RUDMXATFSA-N
<b>MDL number</b>	MFCD00036814
<b>Appearance</b>	White to off-white solid

## References

### The anti-viral facet of anti-rheumatic drugs: Lessons from COVID-19

Gerli et al (2020) J Autoimmun. 111

