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DATASHEET

Mycophenolic acid

Product overview

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

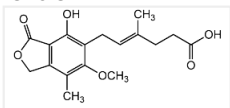
Biological Data

Biological description	<p>Antibiotic which is a potent, reversible inosine monophosphatase dehydrogenase inhibitor. It is 5-fold more potent at type II compared to type I isoforms.</p> <p>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.</p> <p>Recently investigated as part of COVID-19 compound repurposing.</p>
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Solubility & Handling

Solubility overview	Soluble in DMSO (100 mM)
Storage instructions	Room temperature
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions Important	Stable for ambient temperature shipping. Follow storage instructions on receipt. This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	6-(1,3-Dihydro-4-hydroxy-6-methoxy-7-methyl-3-oxo-5-isobenzofuranyl)-4-methyl-4-hexenoic acid
Molecular Weight	320.3
Chemical structure	
Molecular Formula	C ₁₇ H ₂₀ O ₆
CAS Number	24280-93-1
PubChem identifier	446541
SMILES	<chem>COC1=C(C)C2=C(C(=O)OC2)C(O)=C1C\C=C(/C)CCC(O)=O</chem>
InChi	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+
InChiKey	HPNSFSBZBAHARI-RUDMXATFSA-N
MDL number	MFCD00036814
Appearance	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

PubMedID

[32317220](#)
