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DATASHEET

Mycophenolic acid

Product overview

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

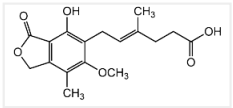
Biological Data

Biological description	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 andinduces apoptosis and necrosis. Recently investigated as part of COVID-19 compound repurposing.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100 mM)
Important	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	COC1=C(C)C2=C(C(=O)OC2)C(O)=C1C\C=C(/C)CCC(O)=O
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/h4,20H,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