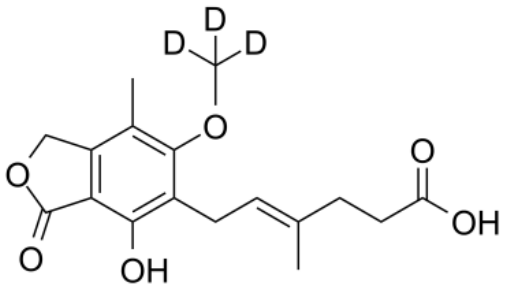
Product Data Sheet

Product Name: Mycophenolic acid D3
Cat. No.: GC36668

Chemical Properties

Cas. No.	1185242-90-3		
SMILES	O=C(OC1)C2=C1C(C)=C(OC([2H])([2H])[2H])C(C/C=C(C)/CCC(O)=O)=C2O		
Formula	$C_{17}H_{17}D_3O_6$	M.Wt	323.36
Solubility	DMSO : ≥ 100 mg/mL (309.25 mM); DMSO : 100 mg/mL (309.25 mM; Need ultrasonic); H_2O : 0.1 mg/mL (0.31 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Mycophenolic acid D3 is a deuterium-labeled Mycophenolic acid, which is an immunosuppressant drug inhibiting the inosine-monophosphate dehydrogenase [1]. Mycophenolic acid D3 is widely used as an internal standard to develop a new type of liquid chromatography tandem mass spectrometry

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for quantitative analysis of Mycophenolic acid as well as the two additional metabolites, 7-O-mycophenolic acid glucuronide (MPAG), and mycophenolic acid acyl-glucuronide (AcMPAG) in plasma and serum[2].

References:

[1] Merrigan S D, Kish-Trier E, Seegmiller J C, et al. LC–MS/MS method for quantitation of mycophenolic acid, mycophenolic acid acyl-glucuronide, and 7-O-mycophenolic acid glucuronide in serum[J]. Clinical Mass Spectrometry, 2017, 3: 41-48.
[2] Garg U, Munar A, Frazee C. Quantitation of Mycophenolic Acid and Mycophenolic Acid Glucuronide in Serum or Plasma by LC-MS/MS[J]. Current Protocols, 2023, 3(4): e730.

Caution: Product has not been fully validated for medical applications. For research use only.
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