

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

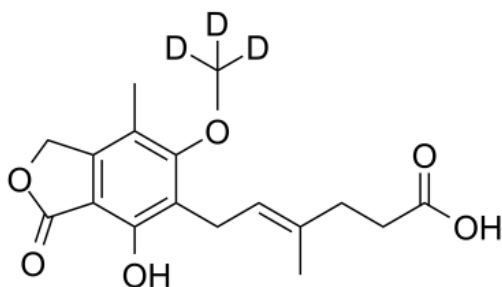
Formula $C_{17}H_{17}D_3O_6$ M.Wt 323.36

Solubility DMSO : ≥ 100 mg/mL (309.25 mM); Storage Store at -20°C
DMSO : 100 mg/mL (309.25 mM;
Need ultrasonic); H_2O : 0.1 mg/mL
(0.31 mM; Need ultrasonic)

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

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

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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.

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