

Product Data Sheet

Product Name: Colchicine-d6

Cat. No.: GC47117

Chemical Properties

Cas. No. 1217651-73-4

SMILES COC1=C(OC)C(OC)=CC2=C1C(C([C@@H](NC(C([2H])([2H])[2H])=O)CC2)=C3)=CC=C(OC([2H])([2H])[2H])C3=O

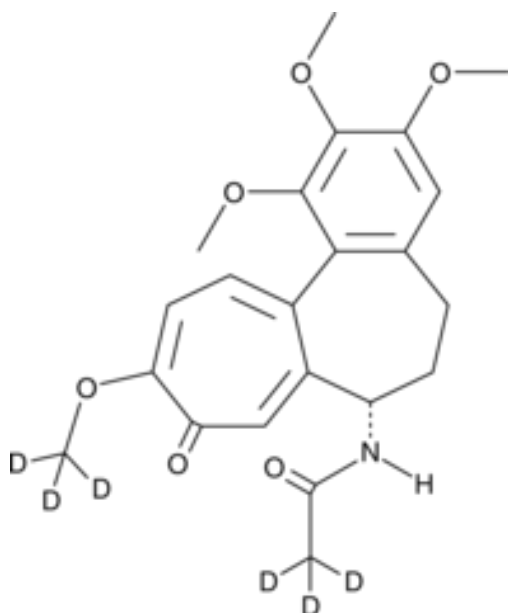
Formula C₂₂H₁₉D₆NO₆ M.Wt 405.5

Solubility Chloroform: Slightly Soluble, Methanol: Slightly Soluble
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

Colchicine-d₆ is intended for use as an internal standard for the quantification of colchicine by GC- or LC-MS. Colchicine is an inhibitor of microtubule polymerization (IC₅₀ = 3.2 μM) that binds to tubulin,

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which disrupts spindle formation during mitosis.¹ It inhibits growth of MCF-7 human breast carcinoma cells with an IC₅₀ value of 13 nM.¹ Colchicine has anti-inflammatory activity, inhibiting neutrophil motility and activity when used at a dose of 5 µmol/kg in a mouse model of gout and preventing the deposition of uric acid.^{2,3}

1.Martino, G.D., Regina, G.L., Coluccia, A., et al.Arylthioindoles, potent inhibitors of tubulin polymerizationJ. Med. Chem.47(25)6120-6123(2004) 2.McCarty, D.J.Urate crystals, inflammation, and colchicineArthritis Rheum.58(2)S20-S24(2008) 3.Chia, E.W., Grainger, R., and Harper, J.L.Colchicine suppresses neutrophil superoxide production in a murine model of gouty arthritis: A rationale for use of low-dose colchicineBr. J. Pharmacol.153(6)1288-1295(2008)

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