

Product Data Sheet

Product Name: Fisetin-d5

Cat. No.: GC49344

Chemical Properties

Cas. No. 2909407-29-8

SMILES O=C1C2=C(C([2H])=C(O)C([2H])=C2)OC(C3=C([2H])C(O)=C(O)C([2H])=C3[2H])=C1O

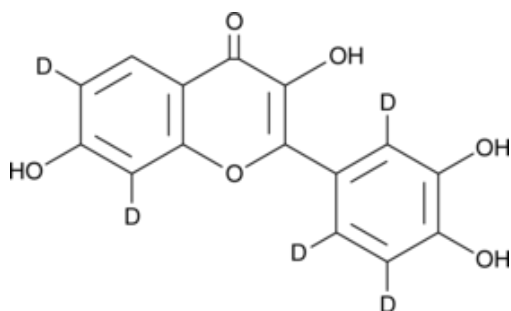
Formula C₁₅H₅D₅O₆ M.Wt 291.3

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2) (1:1): 0.5 mg/ml, Ethanol: 5 mg/ml
Storage -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

Fisetin-d₅ is intended for use as an internal standard for the quantification of fisetin by GC- or LC-MS. Fisetin is a flavonoid that has been found in various fruits and vegetables and has diverse biological activities.^{1,2,3,4} It scavenges radicals in a Trolox equivalent antioxidant capacity (TEAC) assay and inhibits oxidative burst induced by N-Formyl-Met-Leu-Phe in isolated human polymorphonuclear neutrophils (PMNs) when used at a concentration of 10 μM.^{1,3} Fisetin (10-60 μM) induces cell cycle arrest at the G₁ phase and apoptosis in, as well as inhibits the proliferation of, LNCaP prostate cancer cells.² It inhibits LPS-induced production of nitrite, prostaglandin E₂, and NF-κB activation in

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

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RAW 264.7 cells.³ Fisetin (1 mg/animal) reduces tumor growth in a CWR22RY1 prostate cancer mouse xenograft model.⁴

1.Khan, N., Syed, D.N., Ahmad, N., et al.Fisetin: A dietary antioxidant for health promotionAntioxid. Redox Signal.19(2)151-162(2013) 2.Khan, N., Afaq, F., Syed, D.N., et al.Fisetin, a novel dietary flavonoid, causes apoptosis and cell cycle arrest in human prostate cancer LNCaP cellsCarcinogenesis29(5)1049-1056(2008) 3.Wang, L., Tu, Y.-C., Lian, T.-W., et al.Distinctive antioxidant and antiinflammatory effects of flavonolsJ. Agric. Food Chem.54(26)9798-9804(2006) 4.Khan, N., Asim, M., Afaq, F., et al.A novel dietary flavonoid fisetin inhibits androgen receptor signaling and tumor growth in athymic nude miceCancer Res.68(20)8555-8563(2008)

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