

Product Data Sheet

Product Name: 7-Methoxyflavone

Cat. No.: GC48880

Chemical Properties

Cas. No. 22395-22-8

SMILES O=C1C=C(C2=CC=CC=C2)OC3=CC(OC)=CC=C13

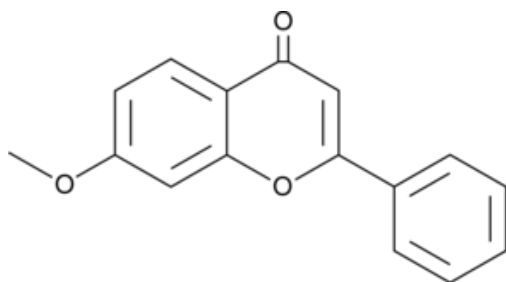
Formula C₁₆H₁₂O₃ M.Wt 252.3

Solubility DMF: 30 mg/ml, DMSO: 15 mg/ml, Ethanol: 5 mg/ml Storage -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution: ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

7-Methoxyflavone is a flavone that has been found in *Z. brasiliensis* and has diverse biological activities.^{1,2,3,4} It inhibits aromatase (IC₅₀ = 1.9 μM in a cell-free assay) and LPS-induced nitric oxide (NO) production by 17.74% in RAW 264.7 macrophages when used at a concentration of 20 μM.^{1,2} 7-Methoxyflavone activates androgen and/or glucocorticoid receptor transcriptional activity in a reporter assay and has antinociceptive effects in the acetic acid-induced writhing test in mice (ED₅₀ = 82.5 μmol/kg).^{3,4}

1. Ta, N., and Walle, T. Aromatase inhibition by bioavailable methylated flavones. *J. Steroid. Biochem. Mol. Biol.* 107(1-2):127-129 (2007) 2. An, J.-Y., Lee, H.-H., Shin, J.-S., et al. Identification and structure activity relationship of novel flavone derivatives that inhibit the production of nitric oxide and PGE₂ in

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

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LPS-induced RAW 264.7 cells Bioorg. Med. Chem. Lett. 27(11)2613-2616(2017) 3. Nishizaki, Y., Ishimoto, Y., Hotta, Y., et al. Effect of flavonoids on androgen and glucocorticoid receptors based on in vitro reporter gene assay Bioorg. Med. Chem. Lett. 19(16)4706-4710(2009) 4. da Silva, A.D.S., Cavalcante-Silva, L.H.A., da Matta, C.B.B., et al. Antinociceptive effect of 7-methoxyflavone isolated from *Zornia brasiliensis* Nat. Prod. Res. 27(18)1695-1699(2013)

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