

Product Data Sheet

Product Name: Luteoloside

Cat. No.: GC41452

Chemical Properties

Cas. No. 5373-11-5

SMILES OC1=C(C(C=C(C2=CC(O)=C(O)C=C2)O3)=O)C3=CC(O[C@H]4[C@H](O)[C@@H](O)[C@H](O)[C@@H](CO)O4)=C1

Formula C₂₁H₂₀O₁₁

M.Wt 448.4

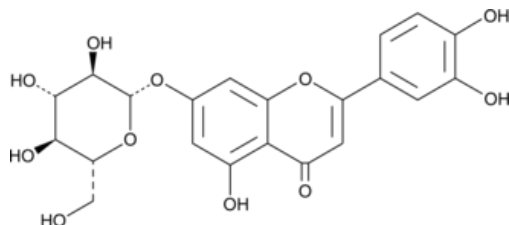
Solubility DMF: 20 mg/ml, DMSO: 10 mg/ml, DMSO: PBS (pH 7.2) (1:5): 1 mg/ml, Ethanol: 5 mg/ml

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

Luteoloside is a flavonoid that has been found in many Chinese herbs with diverse biological activities. It reduces lactate dehydrogenase (LDH) and caspase-3 activities and production of reactive oxygen species (ROS) and increases cell viability and 14-3-3 η protein levels in H9C2 cardiomyocytes after anoxia/reoxygenation injury. Luteoloside blocks 3C protease activity (IC₅₀ = 0.36 mM) and reduces the cytopathic effect of enterovirus 71 in rhabdomyosarcoma cells (EC₅₀ = 0.43 mM). It inhibits the growth of hepatocellular carcinoma (HCC) cells in vitro via reduction in ROS accumulation, caspase-1 activity, and expression of the NLRP3 inflammasome and reduces the number of lung metastases in an SMMC-7721 HCC mouse xenograft model when administered at a dose of 2 mg/kg. Luteoloside also reduces acanthosis and expression of epidermal differentiation markers in a mouse model of psoriasis induced by imiquimod.

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

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