
Product Data Sheet

Product Name: Luteolin 7-sulfate

Cat. No.: GC39089

Chemical Properties

Cas. No. 56857-57-9

SMILES O=C1C2=C(O)C=C(OS(=O)(O)=O)C=C2OC(C3=CC(O)=C(O)C=C3)=C1Formula $C_{15}H_{10}O_9S$ M.Wt 366.3

Solubility Soluble in DMSO 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**

Luteolin 7-sulfate is isolated from *Phyllospadix iwatensis* Makino, a marine plant. Luteolin 7-sulfate attenuates TYR gene expression through the intervention of a cAMP-responsive element binding protein (CREB)- and microphthalmia-associated transcription factor (MITF)-mediated signaling pathway, leading to the decreased melanin synthesis[1].

[1]. Lee SW, et al. Luteolin 7-Sulfate Attenuates Melanin Synthesis through Inhibition of CREB- and MITF-Mediated Tyrosinase Expression. *Antioxidants* (Basel). 2019 Apr 4;8(4).

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

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