

Product Data Sheet

Product Name: Gossypin

Cat. No.: GC60180

Chemical Properties

Cas. No. 652-78-8

SMILES O=C1C(O)=C(C2=CC=C(O)C(O)=C2)OC3=C(O[C@H]4[C@@H]([C@H]([C@@H]([C@@H]([C@@H](CO)O4)O)O)O)C(O)=CC(O)=C13

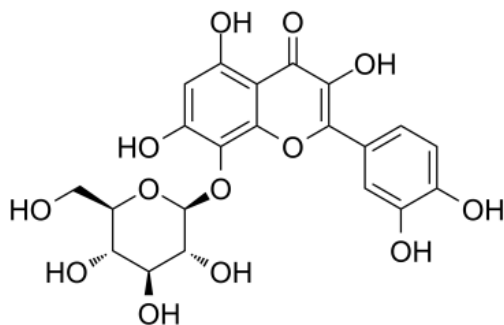
Formula $C_{21}H_{20}O_{13}$ M.Wt 480.38

Solubility 30 mg/ml in DMF, PBS (pH 7.2) (1:2): Storage Store at -20°C
0.3 mg/ml in DMF, 25 mg/ml in DMSO

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

Gossypin is a flavone isolated from *Hibiscus vitifolius* and has antioxidant, antiinflammatory, anticancer, antiscaract, antidiabetic, analgesic and hepatoprotective activities. Gossypin inhibits NF-κB and NF-κB-regulated gene expression. Gossypin inhibits RANKL-induced osteoclastogenesis both in mouse primary bone marrow cells and RAW 264.7 cells in vitro[1][2].

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

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[1]. Ajaikumar B Kunnumakkara, et al. Gossypin, a pentahydroxy glucosyl flavone, inhibits the transforming growth factor beta-activated kinase-1-mediated NF-kappaB activation pathway, leading to potentiation of apoptosis, suppression of invasion, and abrogation of osteoclastogenesis. *Blood*. 2007 Jun 15;109(12):5112-21. [2]. Kanika Patel, et al. Gossypin: A phytochemical of multispectrum potential. *the Journal of Coastal Life Medicine*.

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