

## Product Data Sheet

Product Name: Sappanchalcone

Cat. No.: GC64645

### Chemical Properties

Cas. No. 94344-54-4

Formula C<sub>16</sub>H<sub>14</sub>O<sub>5</sub>

M.Wt 286.28

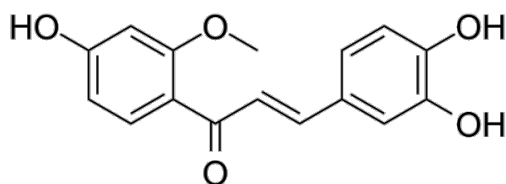
Solubility

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

Sappanchalcone, a flavonoid isolated from *Caesalpinia sappan* L., induces caspase-dependent and AIF-dependent apoptosis in human colon cancer cells[1].

Sappanchalcone has a statistically significant effect on HCT116 cells than on SW480 cells (IC<sub>50</sub>= 37.33 μM and 54.23 μM, respectively). Sappanchalcone reduces MMP with a significant increase in ROS levels in human colon cancer cells. Sappanchalcone triggered phosphorylation of p53, which is

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involved in the activation of caspases and increased expression of Bax in HCT116 cells[1].

[1]. Seo HW, et al. Sappanchalcone, a flavonoid isolated from *Caesalpinia sappan* L., induces caspase-dependent and AIF-dependent apoptosis in human colon cancer cells. *Chem Biol Interact.* 2020;327:109185.

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