

# Sanggenone C Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

## [ Product Information ]

**Name:** Sanggenone C

**Catalog No.:** CFN99593

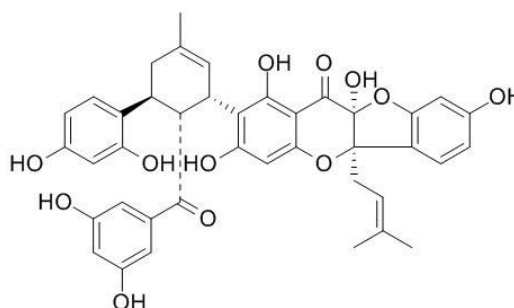
**Cas No.:** 80651-76-9

**Purity:** >=98%

**M.F:** C<sub>40</sub>H<sub>36</sub>O<sub>12</sub>

**M.W:** 708.71

**Physical Description:** Powder



**Synonyms:** 2-[(1S,5S,6R)-6-(2,4-dihydroxybenzoyl)-5-(2,4-dihydroxyphenyl)-3-methylcyclohex-2-en-1-yl]-1,3,8,10a-tetrahydroxy-5a-(3-methylbut-2-en-1-yl)-5a,10a-dihydro-11H-[1]benzofuro[3,2-b]chromen-11-one.

## [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

## [ Source ]

The root bark of *Morus alba* L.

## **[ Biological Activity or Inhibitors ]**

Sanggenon C inhibits tumor cell viability via induction of cell cycle arrest and cell death, which is associated with its ability to inhibit the proteasome function and that proteasome inhibition by Sanggenon C at least partially contributes to the observed tumor cell growth-inhibitory activity.<sup>[1]</sup>

Sanggenons C, E, and O show an inhibitory effect on COX-1 and -2, show IC<sub>50</sub> values of 10 - 14  $\mu$ M, and 40 - 50  $\mu$ M, respectively.<sup>[2]</sup>

Sanggenons(sanggenon C, D) represent a new scaffold of positive GABAA receptor modulators.<sup>[3]</sup>

## **[ Solvent ]**

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

## **[ HPLC Method ]<sup>[4]</sup>**

Mobile phase: Methanol- H<sub>2</sub>O= 75:25 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 280 nm.

## **[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.

## **[ References ]**

[1] Huang H, Liu N, Kai Z, *et al. Front . Biosci.*, 2011, 3(4):1315-25.

[2] Rollinger J M, Bodensieck A, Seger C, *et al. Planta Med.*, 2005, 71(5):399-405.

[3] Kim H J, Baburin I, Zaugg J, *et al. Planta Med.*, 2012, 78(5):440-7.

[4] Li H Y, Sun J Y, Wu S X. *Chinese Traditional Patent Medicine*, 2002, 24(2):104-6.

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