

Protosappanin B Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Protosappanin B

Catalog No.: CFN90135

Cas No.: 102036-29-3

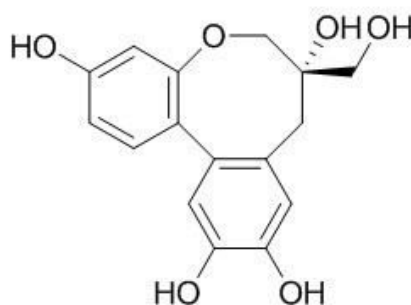
Purity: > 98%

M.F: C₁₆H₁₆O₆

M.W: 304.30

Physical Description: Powder

Synonyms: (-)-Protosappanin B; (7S,12aS)-7,8-Dihydro-7-(hydroxymethyl)-6H-dibenz[b,d]oxocin-3,7,10,11-tetrol; 7,8-Dihydro-7-(hydroxymethyl)-6H-dibenz[b,d]oxocin-3,7,10,11-tetrol.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

[Source]

The heartwoods of *Caesalpinia sappan*.

[Biological Activity or Inhibitors]

Protosappanin B extracted from Lignum Sappan exerts marked antitumor effects both in vitro and in vivo.^[1]

Protosappanin B protects PC12 cells against oxygen–glucose deprivation-induced neuronal death by maintaining mitochondrial homeostasis via induction of ubiquitin-dependent p53 protein degradation.^[2]

Protosappanin B has anti-oxidant activity, it can inhibit the oxidation of linoleic acid.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Methanol-0.2% Methanoic acid, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 285 nm.

[Storage]

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

[References]

[1] Yang X, Ren L, Zhang S, *et al. Integr. Cancer Ther.*, 2015, 15(1):87-95.

[2] Zeng K W, Liao L X, Zhao M B, *et al. Eur. J. Pharmacol.*, 2015, 751:13-23.

[3] Sasaki Y, Hosokawa T, Nagai M, *et al. Biol. Pharmaceut. Bull.*, 2007, 30(1):193-6.

[4] Chen X M, Hu Y G, Li M P, *et al. Chinese Journal of Analysis Laboratory*,

2012(4):98-101.

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