

Zingiberen newsaponin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Zingiberen newsaponin

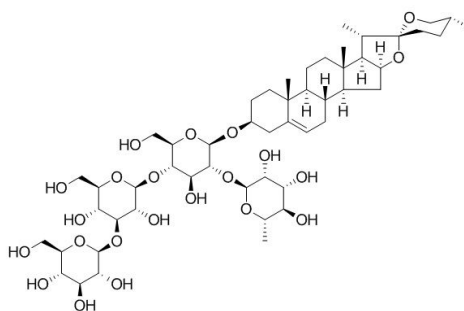
Catalog No.: CFN90832

Cas No.: 91653-50-8

Purity: > 95%

M.F: C₅₁H₈₂O₂₂

M.W: 1047.2



Physical Description: Powder

Synonyms: Spirost-5-en-2-yl-6-deoxyhexopyranosyl-(1->2)-[hexopyranosyl-(1->3)hexopyranosyl-(1->4)]hexopyranoside.

[Intended Use]

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

[Source]

The rhizomes of *Paris yunnanensis* Franch.

[Biological Activity or Inhibitors]

Zingiberensis newsaponin I exhibits induction effect on platelet aggregation.^[1]

Zingiberensis saponin can inhibit the proliferation of a panel of established human and murine cancer cell lines in vitro, its proliferation inhibitory effect is associated with its apoptosis-inducing effect by activation of caspase-3 and caspase-9 and specific proteolytic cleavage of poly (ADP-ribose) polymerase, thus, zingiberensis saponin is an effective natural agent for cancer therapy.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

HPLC-ELSD:

Mobile phase: Acetonitrile-H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 23 °C;

Drift tube temperature: 90 °C;

Flow rate of gas : 2.8L/min;

Carrier gas: N₂.

[Storage]

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

[References]

[1] Wang J J, Liu Y X, Wen D, *et al. China Journal of Chinese Materia Medica*, 2014, 39(19):3782-7.

[2] Tong Q Y, He Y, Zhao Q B, *et al. Steroids*, 2012, 77(12):1219-27.

[3] Zhang X, Liang J, Su Q, *et al. Chinese Journal of Pharmaceutical Analysis*, 2013, 33(7):1235-8.

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