

Gypenoside XLIX Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Gypenoside XLIX

Catalog No.: CFN99717

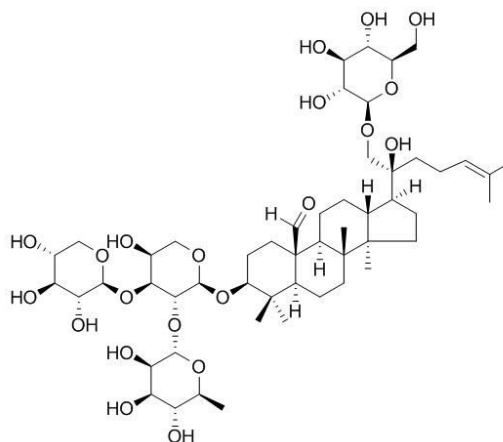
Cas No.: 94987-08-3

Purity: > 98%

M.F: C₅₂H₈₆O₂₁

M.W: 1047.23

Physical Description: White powder



Synonyms: (3 β)-3-[(O-6-Deoxy- α -L-mannopyranosyl-(1-2)-O-[β -D-xylopyranosyl-(1-3)]- α -L-arabinopyranosyl)oxy]-21-(β -D-glucopyranosyloxy)-20-hydroxy-dammar-24-en-19-al.

[Intended Use]

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

[Source]

The herb of *Gynostemma pentaphyllum* (Thunb.) Makino.

[Biological Activity or Inhibitors]

Gypenoside XLIX (Gyp-XLIX), a naturally occurring gynosaponin, can inhibit LPS-induced NF- κ B activation in murine macrophages, it restores the LPS- and TNF- α -induced decrease in cytosolic I- κ B α protein expression and inhibits the translocation of NF- κ B(p65) to the nucleus in THP-1 monocyte and HUVEC cells; suggests that Gyp-XLIX inhibits NF-kappaB activation via a PPAR-alpha-dependent pathway.^[1]

[Solvent]

Pyridine, DMSO, Ethanol, Methanol.

[HPLC Method]^[2]

HPLC-ELSD:

Mobile phase: Acetonitrile- 0.5% Acetic acid H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

Atomization temperature : 42 °C;

Drift tube temperature: 65 °C;

Flow rate of gas : 2.0L/min;

Carrier gas: N₂.

[Storage]

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

[References]

[1] Huang H W, Li Y, Razmovski-Naumovski V, *et al. J. Biomed. Sci.*, 2006, 13(4):535-48.

[2] Li H F . *China Health Industry*, 2015(15):5-8.

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