

Buddlejasaponin IV Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Buddlejasaponin IV

Catalog No.: CFN98519

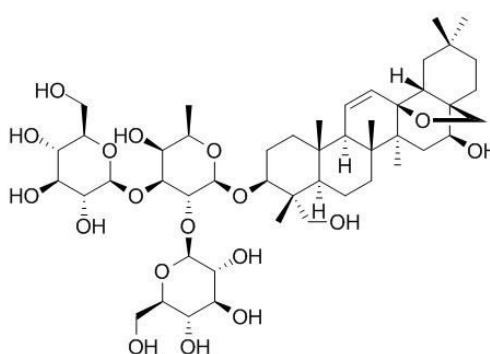
Cas No.: 139523-30-1

Purity: >=98%

M.F: C₄₈H₇₈O₁₈

M.W: 943.12

Physical Description: White powder



Synonyms: (3β,13α,16β,17α)-16,23-dihydroxy-13,28-epoxyolean-11-en-3-yl-β-D-glucopyranosyl-(1→2)-[β-D-glucopyranosyl-(1→3)]-6-deoxy-β-D-galactopyranoside.

[Intended Use]

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

[Source]

The herbs of *Buddleja lindleyana* Fort.

[Biological Activity or Inhibitors]

Buddlejasaponin IV has analgesic and anti-inflammatory effects, the inhibitions of the expressions of iNOS, COX-2, TNF-alpha, IL-1beta and IL-6 by blocking NF-kappaB activation, are responsible for the anti-inflammatory effects of buddlejasaponin IV.^[1]

Buddlejasaponin IV can inhibit intrinsic and extrinsic hyperlipidemia and hypercholesterolemia in the rat.^[2]

Buddlejasaponin IV exerts antiinflammatory and cytotoxic effects against cancer cells, it can induce cell cycle arrest at G2/M phase and apoptosis in immortalized human oral keratinocytes. ^[3]

Buddlejasaponin IV may possess antimetastatic potential by inducing anoikis and upregulating NAG-1 expression.^[4]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[5]

HPLC-ELSD:

Mobile phase: Acetonitrile-H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

Drift tube temperature: 110 °C;

Flow rate of gas : 3.0L/min.

[Storage]

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

[References]

[1] Won J H, Im H T, Kim Y H, *et al. Br. J. Pharmacol.*, 2006 May; 148(2): 216-25.

[2] Jung H J, Nam J H, Park H J, *et al. J. Ethnopharmacol.*,2007 Jun 13;112(2):255-61.

[3] Hwang Y S, Chung W Y, Kim J, *et al. Phytother. Res.*,2011 Oct;25(10):1503-10.

[4] Jin E K, Chung W Y, Park K K. *Cancer Res.*,2005,46:2464.

[5] Chen Y Y, Li D P, Liu FL, *et al. Agricultural Research and Application.*,2011(3):22-5.

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