

Zingibroside R1 Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Zingibroside R1

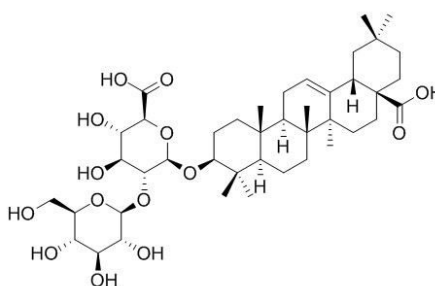
Catalog No.: CFN92517

Cas No.: 80930-74-1

Purity: > 95%

M.F: C₄₂H₆₆O₁₄

M.W: 795.0



Physical Description: Powder

Synonyms: 28-Deglucosylchikusetsusaponin V; 28-Hydroxy-28-oxoolean-12-en-3 β -yl 2-O-(β -D-glucopyranosyl)- β -D-glucopyranosiduronic acid; Polysciasaponin P5; 3 β -(2-O- β -D-Glucopyranosyl)- β -D-glucopyranuronosyloxy)oleana-12-ene-28-oic acid; Ginsenoside Z-R1.

[Intended Use]

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

[Source]

The roots of *Achyranthes aspera*.

[Biological Activity or Inhibitors]

Zingibroside R1, isolated from rhizomes of *Panax zingiberensis* Wu et Feng (*Araliaceae*), shows some anti-HIV-1 activity, it also has the inhibitory effects on the 2-deoxy-D-glucose (2-DG) uptake by Ehrlich ascites tumor (EAT) cells (IC₅₀ = 91.3 microM) and the growth of human T-cell line (MT-4) (CC₅₀ = 46.2 microM). ^[1]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[2]

Mobile phase: Acetonitrile-0.2% Phosphoric acid H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 203 nm.

[Storage]

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

[References]

[1] Hasegawa H, Matsumiya S, Uchiyama M, *et al. Planta Med.*, 1994, 60(3):240-3.

[2] Xu M M, Song B, Yang X J, *et al. Central South Pharmacy*, 2014(8):796-9.

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