

Polygalacin D Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Polygalacin D

Catalog No.: CFN93351

Cas No.: 66663-91-0

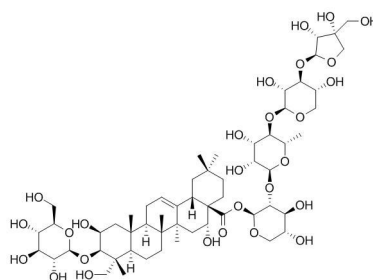
Purity: >=98%

M.F: C₅₇H₉₂O₂₇

M.W: 1209.4

Physical Description: Powder

Synonyms:



[Intended Use]

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

[Source]

The roots of *Polygala tenuifolia* Willd.

[Biological Activity or Inhibitors]

Polygalacin D can inhibit the expression of lipopolysaccharide (LPS)-induced iNOS and

COX-2 protein and mRNA without an appreciable cytotoxic effect on RAW 264.7 macrophages, and can suppress induction by LPS of pro-inflammatory cytokines such as prostaglandin E2 (PGE2).^[1]

Polygalacin D2 exhibits significant inhibition on the proliferation of five kinds of cultured human tumor cell lines, i. e., A549 (non-small cell lung), SK-OV-3 (ovary), SK-MEL-2 (melanoma), XF498 (central nerve system) and HCT-15 (colon), in vitro.^[2]

Polygalacin D shows hepatoprotective activities against HSC-T6 cell line in vitro. ^[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[4]

Mobile phase: Methanol -H₂O, gradient elution ;

Flow rate: 3.5 ml/min;

Column temperature: 30 °C;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Ahn K S, Noh E J, Zhao H L, *et al. Life Sci.*, 2005, 76(20):2315-28.

[2] Kim Y S, Kim J S, Choi S U, *et al. Planta Med.*, 2005, 71(6):566-8.

[3] Zhan Q, Zhang F, Sun L, *et al. Molecules*, 2012, 17(12):14899-907.

[4] Li W, Sun Y S, Wang Z, *et al. J. Liq. Chromatogr. R. T.*, 2012, 35(4):547-57.

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