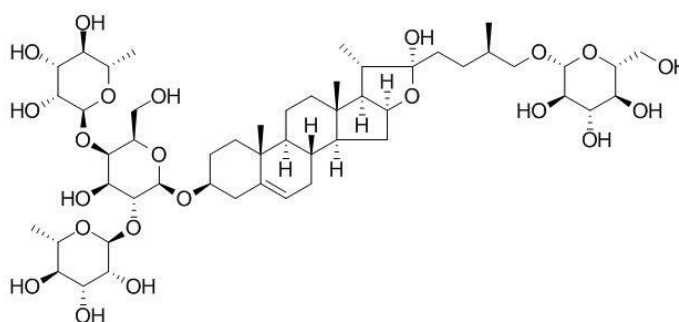


Protodioscin Datasheet

5th Edition (Revised in January, 2017)**[Product Information]****Name:** Protodioscin**Catalog No.:** CFN99517**Cas No.:** 55056-80-9**Purity:** >=98%**M.F:** C₅₁H₈₄O₂₂**M.W:** 1049.21**Physical Description:** Powder**Synonyms:** 26-O-beta-D-Glycopyranosyl-22-hydroxyfurost-5-ene-3beta,26-diol-3-O-beta-diglucohamnoside.**[Intended Use]**

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

[Source]The rhizomes of *Dioscorea nipponica* Makino.

[Biological Activity or Inhibitors]

Protodioscin is cytotoxic against most cell lines from leukemia and solid tumors in the NCI's human cancer panel, especially selectively against one leukemia line (MOLT-4), one NSCLC line (A549/ATCC), two colon cancer lines (HCT-116 and SW-620), one CNS cancer line (SNB-75), one melanoma line (LOX IMVI), and one renal cancer line (786 - 0) with GI50 \leq 2.0 μ M.^[1]

Protodioscin appears to possess aphrodisiac activity probably due to its androgen increasing property.^[2]

Protodioscin has antihyperlipidemic effect, its great availability in various vegetables and medicinal plants will be useful in developing health food supplement(s) and/or drug(s) against hyperlipidemia.^[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[4]

Mobile phase: Acetonitrile-H₂O=8:92;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 203 nm.

[Storage]

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

[References]

[1] Hu K, Yao X. *Planta Med.*, 2002, 68(4):297-301.

[2] Gauthaman K, Adaikan P G, Prasad R N V. *Life Sci.*, 2002, 71(12):1385-96.

[3] Wang T, Choi R C, Li J, *et al. Planta Med.*, 2010, 76(15):1642-6.

[4]Yu S X, Guo Q F, Zhang W, *et al. Lishizhen Medicine & Materia Medica Research*, 2007, 18(7):1684-5.

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