

## Product Data Sheet

Product Name: Pseudoprotodioscin

Cat. No.: GC38839

### Chemical Properties

Cas. No. 102115-79-7

Formula  $C_{51}H_{82}O_{21}$

M.Wt 1031.18

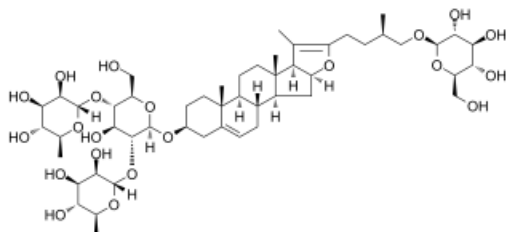
Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, PBS (pH 7.2): 5 mg/ml

Storage Store at  $-20^{\circ}\text{C}$ , protect from light

General tips For obtaining a higher solubility, please warm the tube at  $37^{\circ}\text{C}$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}\text{C}$  for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



### Background

Pseudoprotodioscin, a furostanoside, inhibits SREBP1/2 and microRNA 33a/b levels and reduces the gene expression regarding the synthesis of cholesterol and triglycerides[1].

In Hep G2 cells, Pseudoprotodioscin increases ABCA1 protein and mRNA levels, and promotes the

**Caution: Product has not been fully validated for medical applications. For research use only.**

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effluxion of ApoA-1-mediated cholesterol. Pseudoprotodioscin inhibits SREBP1c and SREBP2 transcription by decreasing microRNA 33a/b levels. This procedure reciprocally lead to the increase of ABCA1 levels. In THP-1 macrophages, Pseudoprotodioscin shows the similar effect, which reduces HMGCR, FAS and ACC mRNA levels and promotes low density lipoprotein receptor by decreasing the PCSK9 levels[1].

[1]. Gai Y, et al. Pseudoprotodioscin inhibits SREBPs and microRNA 33a/b levels and reduces the gene expression regarding the synthesis of cholesterol and triglycerides. *Fitoterapia*. 2019 Nov;139:104393. [2]. Liang ZZ, et al. Oligofurostanosides from *Asparagus cochinchinensis*. *Planta Med*. 1988 Aug;54(4):344-6.

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