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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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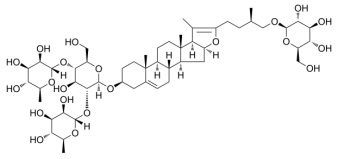
Pseudoprotodioscin

Cat. No.:	HY-N0686
CAS No.:	102115-79-7
Molecular Formula:	$C_{51}H_{82}O_{21}$
Molecular Weight:	1031.18
Target:	Fatty Acid Synthase (FASN); MicroRNA
Pathway:	Metabolic Enzyme/Protease; Epigenetics
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

H_2O : ≥ 100 mg/mL (96.98 mM)

DMSO : 100 mg/mL (96.98 mM; Need ultrasonic)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	0.9698 mL	4.8488 mL	9.6976 mL
5 mM	0.1940 mL	0.9698 mL	1.9395 mL
10 mM	0.0970 mL	0.4849 mL	0.9698 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (2.42 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (2.42 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (2.42 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

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 Vitro

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

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Int J Mol Sci. 2021 May 31;22(11):5951.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Liang ZZ, et al. Oligofurostanosides from Asparagus cochinchinensis. Planta Med. 1988 Aug;54(4):344-6.

[2]. 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.

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