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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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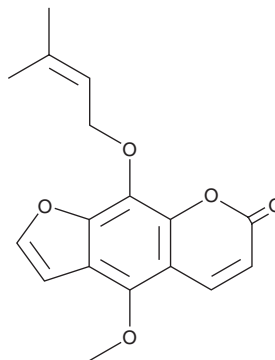
PRODUCT INFORMATION



Phellopterin

Item No. 38965

CAS Registry No.: 2543-94-4
Formal Name: 7-butyl-5-hydroxy-2-methyl-2-(4-methyl-3-penten-1-yl)-2H-1-benzopyran-6-carboxylic acid
Synonym: NSC 152469
MF: C₁₇H₁₆O₅
FW: 300.3
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Item Origin: Plant/*Saposhnikovia divaricata*



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Phellopterin is supplied as a solid. A stock solution may be made by dissolving the phellopterin in the solvent of choice, which should be purged with an inert gas. Phellopterin is soluble in chloroform and methanol.

Description

Phellopterin is a furanocoumarin that has been found in *A. dahurica* and has diverse biological activities.¹⁻³ It is an antagonist of GABA_A receptors (IC₅₀ = 360 nM for the rat receptor).¹ Phellopterin (20 μM) decreases LPS-induced secretion of prostaglandin E₂ (PGE₂; Item No. 14010) from primary rat peritoneal macrophages.² Topical application of phellopterin (1.2 μg/g) accelerates wound healing in a mouse model of diabetes induced by streptozotocin (Item No. 13104).³ It increases the levels of mRNA encoding sirtuin 1 (Sirt1) and decreases mRNA encoding intracellular adhesion molecule-1 (Icam-1) in epithelium isolated from mice in the same model.

References

1. Bergendorff, O., Dekermendjian, K., Nielsen, M., *et al.* Furanocoumarins with affinity to brain benzodiazepine receptors *in vitro*. *Phytochemistry* **44**(6), 1121-1124 (1997).
2. Ban, H.S., Lim, S.S., Suzuki, K., *et al.* Inhibitory effects of furanocoumarins isolated from the roots of *Angelica dahurica* on prostaglandin E₂ production. *Planta Med.* **69**(5), 408-412 (2003).
3. Zou, J., Duan, Y., Wang, Y., *et al.* Phellopterin cream exerts an anti-inflammatory effect that facilitates diabetes-associated cutaneous wound healing *via* SIRT1. *Phytomedicine* **107**, 154447 (2022).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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